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THE JOURNAL

HELLENIC STUDIES



WANTEDON STOP

STREET, STORES

THE JOURNAL

OF

HELLENIC STUDIES

25985

VOLUME XXXIX. (1919)

938.005 J. H. S.



PUBLISHED BY THE COUNCIL AND SOLD ON THEIR BEHALF

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The Society for the Promotion of Roman Studies.

19 BLOOMSBURY SQUARE, LONDON, W.C. 1

Premiute PROFESSOR J. S. HEID, Like.

The Society subtraces the illumy, art not such molegy of Rome, Italy and the Roman Empire, down to absort A 114, POO-

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THE CLASSICAL ASSOCIATION

The objects of the Classical Association are to promote the development and maintain the well-being of classical studies, and in particular (a) to impress upon public opinion the claim of such studies to an eminent place in the national scheme of education; (b) to improve the practice of classical teaching; (c) to emoutage investigation and call attention to new discoveries; (d) to create opportunities for intercourse among lovers of classical learning.

Membership of the Association is open to men and women alike. The annual subscription is 5s. (life composition, £3 15s.), and there is an entrance fee of 5s. (not charged to Labraries). Members receive a copy of the annual Proceedings of the Association and of The Year's Werk in Classical Studies (both post free). They may also obtain the Classical Review and Classical Quarterly at the reduced price of 7s. and 9s. a year respectively (post free), provided that the subscriptions be paid before January 31st in each year. Subscriptions sent in later than that date must be at the rates offered to the general public, viz. 75 fed. for the Classical Review, 129. 6d for the Classical Quarterly, or 18s. for the two Journals jointly, post free in each case.

Inquiries and applications for membership should be addressed either to the Hon. Treasurer, Mr. E. Norman Gardiner, 2, The College, Epson: or to either of the Hon. Secretaries, Professor Slater, 4, Chalcot Gardens, London, N.W. 5, and Professor Ure, University College, Reading; or to the Hon. Secretary of any of the district Branches-viz., Miss Hilda Livesey, 155, Oswald Road, Choriton-cum Hardy, Manchester; Miss M. W. U. Robertson, The University, Edmand Street, Birmingham; Mr. Kenneth Forbes, The University, Liverpool; Mr. E. P. Barker, 426. Woodborough Road, Nottingham: Miss Wilkinson, Badminton House, Clitton, Bristol; Mr. Basil Anderton, The Public Library, New Bridge Street, Newcastle-upon Tyne; Miss E. Strodwick, M.A., City of London School for Girls, Carmelite Street, E.C. 4; Miss M. E. Pearson, University Registry, Cathavs Park, Cardiff; Mr. P. W. Dodd, The University, Leeds; and Professor Dawson, Northcote House, Apollo Bander, Bombay.



RULES

OF THE

Society for the Promotion of Bellenic Studies.

- t. THE objects of this Society shall be as follows:-
- 1. To advance the study of Greek language, literature, and art, and to illustrate the history of the Greek race in the ancient, Byzantine, and Neo-Hellenic periods, by the publication of memoirs and unedited documents or monuments in a Journal to be issued periodically.
- II. To collect drawings, facsimiles, transcripts, plans, and photographs of Greek inscriptions, MSS, works of art, ancient sites and remains, and with this view to invite travellers to communicate to the Society notes or sketches of archaeological and topographical interest.
- 111. To organise means by which members of the Society may have increased facilities for visiting ancient sites and pursuing archieological researches in countries which, at any time, have been the sites of Hellenic civilization.
- 2. The Society shall consist of a President, Vice-Presidents, a Council, a Treasurer, one or more Secretaries, 40 Hon. Members, and Ordinary Members. All officers of the Society shall be chosen from among its Members, and shall be ex officio members of the Council.
- 3. The President shall preside at all General, Ordinary, or Special Meetings of the Society, and of the Council or of any Committee at which he is present. In case of the absence of the President, one of the Vice-Presidents shall preside in his stead, and in the absence of the Vice-Presidents the Treasurer. In the absence of the Treasurer the Council or Committee shall appoint one of their Members to preside.
 - 4. The funds and other property of the Society shall be administered and applied by the Council in such manner as they shall consider most conducive to the objects of the Society; in the Council shall also be vested the control of all publications issued by the Society, and the general management of all its affairs and concerns. The number of the Council shall not exceed fifty.

4

- 5. The Treasurer shall receive, on account of the Society, all subscriptions donations, or other moneys accruing to the funds thereof, and shall make all payments ordered by the Council. All cheques shall be signed by the Treasurer and countersigned by the Secretary.
- In the absence of the Treasurer the Council may direct that cheques may be signed by two members of Council and countersigned by the Secretary.
- 7. The Council shall meet as often as they may deem necessary for the despatch of business.
- 8 Due notice of every such Meeting shall be sent to each Member of the Council, by a summons signed by the Secretary.
- 9 Three Members of the Council, provided not more than one of the three present be a permanent officer of the Society, shall be a quorum.
- to. All questions before the Council shall be determined by a majority of votes. The Chairman to have a casting vote.
- 11 The Council shall prepare an Annual Report, to be submitted to the Annual Meeting of the Society.
- tz. The Secretary shall give notice in writing to each Member of the Council of the ordinary days of meeting of the Council and shall have authority to summon a Special and Extraordinary Meeting of the Council on a requisition signed by at least four Members of the Council
- 13. Two Auditors, not being Members of the Council, shall be elected by the Society in each year.
- 14 A General Meeting of the Society shall be held in London in June of each year, when the Reports of the Council and of the Auditors shall be read, the Council, Officers, and Auditors for the ensuing year elected, and any other business recommended by the Council discussed and determined. Meetings of the Society for the reading of papers may be held at such times as the Council may fix, due notice being given to Members.
- 15 The President, Vice-Presidents, Treasurer, Secretaries, and Council shall be elected by the Members of the Society at the Annual Meeting.
- 16. The President shall be elected by the Members of the Society at the Annual Meeting for a period of five years, and shall not be immediately eligible for re-election.
- 17. The Vice-Presidents shall be elected by the Members of the Society at the Annual Meeting for a period of one year, after which they shall be eligible for re-election.

- 18. One-third of the Council shall retire every year, but the Members so retiring shall be eligible for re-election at the Annual Meeting.
- 19. The Treasurer and Secretaries shall hold their offices during the pleasure of the Council
- 20. The elections of the Officers, Council, and Auditors, at the Annual Meeting, shall be by a majority of the votes of those present. The Chairman of the Meeting shall have a casting vote. The mode in which the vote shall be taken shall be determined by the President and Council.
- 21. Every Member of the Society shall be summoned to the Annual Meeting by notice issued at least one month before it is held.
- 22. All motions made at the Annual Meeting shall be in writing and shall be signed by the mover and seconder. No motion shall be submitted, unless notice of it has been given to the Secretary at least three weeks before the Annual Meeting.
- 23. Upon any vacancy in the Presidency occurring between the Annual Elections, one of the Vice-Presidents shall be elected by the Council to officiate as President until the next Annual Meeting.
- 24. All vacancies among the other Officers of the Society occurring between the same dates shall in like manner be provisionally filled up by the Council until the next Annual Meeting.
- 35. The names of all Candidates wishing to become Members of the Society shall be submitted to a Meeting of the Council, and at their next Meeting the Council shall proceed to the election of Candidates so proposed: no such election to be valid unless the Candidate receives the votes of the majority of those present.
- 26. The Annual Subscription of Members shall be one guines, payable and due on the 1st of January each year; this annual subscription may be compounded for by a single payment of £15 155, entitling compounders to be Members of the Society for life, without further payment. All Members elected on or after January 1, 1905, shall pay on election an entrance fee of two guiness.
- 27. The payment of the Annual Subscription, or of the Life Composition, entitles each Member to receive a copy of the ordinary publications of the Society.
- 28. When any Member of the Society shall be six months in arrear of his Annual Subscription, the Secretary or Treasurer shall remind him of the arrears due, and in case of non-payment thereof within six months after date of such notice, such defaulting Member shall cease to be a Member of the Society, unless the Council make an order to the contrary.

29. Members intending to leave the Society must send a formal notice of resignation to the Secretary on or before January 1; otherwise they will be held liable for the subscription for the current year.

Member of the Society, a Special Meeting of the Council shall be held to consider the case, and if at such Meeting at least two-thirds of the Members present shall concur in a resolution for the expulsion of such Member of the Society, the President shall submit the same for confirmation at a General Meeting of the Society specially summoned for this purpose, and if the decision of the Council be confirmed by a majority at the General Meeting, notice shall be given to that effect to the Member in question, who shall thereupon cease to be a Member of the Society.

31. The Council shall have power to nonlinate 40 British or Foreign Honorary Members. The number of British Honorary Members shall not exceed ten.

32. The Council may, at their discretion, elect for a period not exceeding five years Student-Associates, who shall be admitted to certain

privileges of the Society.

33. The names of Cambridges wishing to become Student-Associates thall be submitted to the Council by the manner prescribed for the Election of Members. Every Cambridge shall also satisfy the Council by means of a certificate from his teacher, who must be a person occupying a recognised position in an educational body and be a Member of the Society, that he is a bond fide Student in subjects germane to the purposes of the Society.

34. The Annual Subscription of a Student-Associate shall be one guinea, payable and due on the 1st of January in each year. In case of non-payment the procedure prescribed for the case of a defaulting

Ordinary Member shall be followed.

35 Student-Associates shall receive the Society's ordinary publications, and shall be entitled to attend the General and Ordinary Meetings, and to read in the Library. They shall not be entitled to borrow books from the Library, or to make use of the Loan Collection of Lantern Slides or to vote at the Society's Meetings.

36. A Student-Associate may at any time pay the Member's entrance lee of two gumeas, and shall forthwith become an Ordinary Member.

37. Ladles shall be eligible as Ordinary Members or Student-Associates of the Society, and when elected shall be entitled to the same privileges as other Ordinary Members or Student-Associates.

38. No change shall be made in the Rules of the Society unless at least a fortnight before the Annual Meeting specific notice be given to every Member of the Society of the changes proposed.

REGULATIONS FOR THE USE OF THE LIBRARY

AT 19 BLOOMSBURY SQUARE, W.C.

(Norte - These Regulations are under Revielon.)

- I. That the Hellenic Library be administered by the Library Commutee, which shall be composed of not less than four members, two of whom shall form a quorum.
- II That the custody and arrangement of the Library be in the hands of the Hon. Librarian and Librarian, subject to the control of the Committee, and in accordance with Regulations drawn up by the said Committee and approved by the Council.
- III. That all books, periodicals, plans, photographs, &c., be received by the Hon. Librarian, Librarian or Secretary and reported to the Council at their next meeting.
- IV. That every book or periodical sent to the Society be at once stamped with the Society's name.
- V. That all the Society's books be entered in a Catalogue to be kept by the Librarian; and that in this Catalogue such books, &c., as are not to be lent out be specified.
- VI. That, except at Christmas, Easter, and on Bank Holidays, the Library be accessible to Members on all week days from 10.30 A.M. to 5.30 P.M. (Saturdays, 10 A.M. to 1 P.M.), when either the Librarian, or in his absence some responsible person, shall be in attendance. Until further notice, however, the Library shall be closed for the vacation for August and the first week of September.
- VII. That the Society's books (with exceptions hereinafter to be specified) be lent to Members under the following conditions:-
 - (1) That the number of volumes lent at any one time to each Member shall not exceed three; but Members belonging both to this Society and to the Roman Society may borrow are volumes at one time.
 - (2) That the time during which such book or books may be kept shall not exceed one month.
 - (3) That no books except under special circumstances, he sent beyond the limits of the United Kingdom.
 - VIII. That the manner in which books are lent shall be as follows:-
 - (t) That all requests for the loan of books be addressed to the Librarian.
 - (2) That the Librarian shall record all such requests, and lend out the books in the order of application.
 - (3) That in each case the name of the book and of the borrower be inscribed, with the date, in a special register to be kept by the Librarian.
 - (4) Should a book not be returned within the period specified, the Librarian may reclaim it:

(5) All expenses of carriage to and fro shall be borne by the borrower.

(6) All books are due for return to the Library before the summer

vacation.

1X. That no book falling under the following categories be lent out except by special authority: -

(1) Unbound books.

Detached plates, plans, photographs, and the like.
 Books considered too valuable for transmission.

(4) New books within one month of their coming into the Library.

X. That new books may be borrowed for one week only, if they have been more than one month and less than three months in the Library.

XI. That in the case of a book being kept beyond the stated time the borrower be liable to a payment of one shilling for each week after application has been made by the Librarian for its return, and if a book is lost the borrower be bound to replace it.

XII. That the following be the Rules defining the position and

privileges of Subscribing Libraries:-

a. Libraries of Public and Educational Institutions desiring to subscribe to the Journal are entitled to receive the Journal for an annual subscription of One Guinea, without Entrance Fee, payable in January of each year, provided that official application for the privilege is made by the Librarian to the Secretary of the Society.

 Subscribing Libraries, or the Librarians, are permitted the use of the Library and Slide Collections on the same conditions as

Members.

A Librarian, if he so desires, may receive notices of meetings and may attend meetings, but is not entitled to vote on questions of private business.

The Library Committee

*PROF. R. S. CONWAY.

*MR. G. D. HARDINGE-TYLER.

MR. G. F. HILL.

*MR. T. RUCE HOLMES.

MISS C. A. HUTTON.

MR. A. H. SMITH (Hon. Librarian).

MR. JOHN PENOVRE, C.B.E. (Librarian).

Applications for books and letters relating to the Photographic Collections, and Lantern Slides, should be addressed to the Librarian, at 19 Bloomsbury Square, W.C. 1.

[.] Representatives of the Roman Society.

THE SOCIETY FOR THE PROMOTION OF HELLENIC STUDIES.

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18

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PROCEEDINGS

SESSION 1918-1919

During the past Session the following Papers were read at General Meetings of the Society:-

November 12th, 1918. Mr. A. Hamilton Smith: The Temporary Wartime Exhibition of the British Museum (see below, p. xx).

February 11th, 1919. Professor Percy Gardner: A Bronze Head of Polycleitan Style (J.H.S. XXXX pp. 69 899.)

May 8th; 1919. Mr. D. S. Robertson: A Greek Carnival (J.H.S. xxxix-pp. 110 1999.)

Mr. J. T. Sheppard: Admetus, Verrall, and Professor Myres

(J.H.S. xxxix, pp. 37 542).

June 24th, 1919. Mr. Stanley Casson: Antiquities discovered on the Salonika Front (see below, p. xxviii).

THE ANNUAL MEETING was held at Burington House on June 24th,

1919, Dr. Walter Leaf, President of the Society, in the Chair,

The President amounced the election of Sir F. G. Kenyon, K.C.B., D.Litt., P.B.A., as President of the Society, and the re-election of the Vice-Presidents, Officials and retiring Members of Council of whose names a printed list had been circulated.

Mr. George A. Macmillan, Hon, Secretary, presented the following

Annual Report of the Council:-

THE Council beg leave to submit the following Report for the Session 1918-19.

Since the last Annual Meeting the nation has passed through a period of intense anxiety, ending in the exultation of victory and followed by a natural reaction after the strain of over four years' continuous fighting.

The work of reorganizing the national life has proved more complicated than was anticipated, demobilisation both of men and of materials proceeds but slowly, and many of the Society's Members have not yet resumed their normal occupations. The Council lelt that in these circumstances it was wiser to wait awhite and take breath before attacking their own particular problem.

of reconstructing and of making good the losses caused by the war. They have therefore no fresh developments to report: there has been no further response to their appeal for records of travel during the 18th and 19th centuries. Undoubtedly many collections of such records exist: the recent discovery of the original drawings made by Adam Buck for a projected publication of Greek vases proves this, and the Council hope that Members will not forget the importance of saving such documents from destruction, even when they have no money value. There is another class of records, also of great value, but of recent date, for which an appeal has been made by the Archaeological Joint Committee, namely notes, sketches and photographs made by those on active service especially in the Near East, the Levant and Mesopotamia. The Council desire to emphasize the importance of such memoranda, if only as signposts to guide scientific examination at a bater date.

The thanks of the Society are again due to Mr. G. F. fill and to Miss. C. A. Hotton for voluntary work in editing the Journal and managing the Library during the continued absence of Captain E. I. Forsdyke and Mr. John Penoyre. Captain Forsdyke will shortly be demobilised and when he returns to his work at the British Museum will resume his editorial duties. The Journal will this year once more be published in two parts, but both will be issued together as one volume. In this way an appreciable sum is saved in packing, etc.

Mr. Penoyre severed his connexion with Lady Roberts' Field Glass Fund in April, and at the same time closed his own organization for the supply of comforts to H.M. Forces in the field. His health has suffered severely from over-fatigue, and as Miss Hutton is able to remain in charge of the office work until after the Summer Vacation the Council have given Mr. Penoyre leave of absence until September. When F. Wise is demobilised he will return to his post in the Library, and it is hoped that

by the autumn it will again be open in the middle of the day.

Changes on the Council, etc.—By the death of Sir John Mahaffy, Provost of Trinity College, Dublin, the Society has lost one of the fast diminishing number of its original founders, and a scholar who, by his long series of books on Greek History, Literature and Antiquities, had done much to promote the objects which the Society has always had in view. By his masterly edition of the 'Petrie Papyri' he had also made his mark in the cognate field of Egyptology. The death roll for the past year also includes the names of Dr. Edwin Freshfield, Sir Hermann Weber, Sir Edward Fry, the Rev. E. C. Selwyn, of an American scholar, Professor Lloyd Andrews, and of Lieut. A. C. Euton (8th Batt. Bedfordshire Regt.) killed in action.

The President of the Society, Dr. Walter Leaf, retires this year on the expiration of his term of office, and the Council desire to place on record their appreciation of the valuable work which he has done for the Society. Histenarcol office has coincided with the duration of the war, a period very bare of humanistic interest but full of urgent national claims on his powers. The Council hope that as these lessen he will find time for the edition of Strabo projected before the war, the lighter side of which has formed the subject of two of his interesting Presidential addresses.

The Council has pleasure in nominating Sir Frederic Kenyon,

Director of the British Museum, for the vacant office of President.

No additions to the number of Vice-Presidents are recommended this year, nor any changes on the Council. The following members retire by rotation and being eligible, are nominated for re-election.—Messrs A.M. Daniel, R.M. Dawkins, J. P. Droop, C. C. Edgar, Talfourd Edy,

T. Eyle, P. N. Ure, Miss J. E. Harrison, Mrs. Arthur Strong,

The Hon. Secretary, Mr. George Macmillan, who has acted in that capacity since the foundation of the Society forty years ago (the Inaugural Meeting was held on June 19th, 1879), has intimated his desire to be relieved of his office as soon as a suitable successor can be found. The Council have received this intimation with the deepest regret. Mr. Macmillan's services to the Society have been invaluable; it is hardly too much to say that it is to him more than to any man that the Society owes its continued prosperity and even its existence. After Mr. Macmillan's forty years of continuous work, the Council feel that they have no right to refuse his request, but they are glad to think that he has consented to continue in office for the present, and that for the moment it is not necessary for them to appoint his successor.

Archaeological Joint Committee.-The Council nominated two representatives (Mr. A. H. Smith and Mr. G. F. Hill) to serve on the Archaeological Joint Committee, formed at the invitation of the Foreign Office by the British Academy in conjunction with the leading archaeological Societies, to deliberate on questions connected with the antiquities of the countries in the Near East which have been opened up by the War, The efforts of the Committee have been directed mainly towards procuring improved legislation on antiquities in the countries affected, especially with a view to interesting the people in their preservation and to modifying the harsh and repressive provisions of existing laws, the chief result of which is to encourage destruction and smuggling. A draft of the general principles which should be observed in such legislation was presented to the British and American Delegations at the Peace Conference, in the hope that they might be accepted by the League of Nations and enforced in the Peace Treaty with Turkey, and that all nations who should receive mandates to govern portions of the former Turkish Empire might be required by the League to conform to them; and a modification of this draft containing all its essential provisions, was adopted by an International Committee in Paris to the same end. How far it will be incorporated in the Peace Treaty is not yet known. The Committee's further recommendation that the antiquities of the countries which will remain under Turkish rule should be administered by an International

Commission was not considered feasible by the International Committee A second piece of work, the drafting in full detail of a Law of Antiquities for Palestine, was undertaken at the request of the Governor of Jerusalem. This has been completed, and the draft, it is believed, has been found acceptable in all essentials and will in time become law; it is hoped that the Law for other lands to be controlled by Great Britain may be drawn on the same lines. Thirdly, the Committee has made arrangements for the collection of records of all kinds relating to antiquities in the countries with which it is concerned; the results of the appeal for such records have so far not been great, but are likely to increase as time goes on The Hellenic Society will be the natural depository for records relating to Greek antiquities collected by the Committee. Finally, it is necessary to record a failure. The Committee's appeal to the Government to endow a British Institute of Archaeology in Egypt has met with a refusal, on the ground of the critical condition of Imperial finances at the present time. It is needless to add that the Committee intends to renew its efforts in this direction when circumstances appear to be more favourable.

General Meetings .- Three General Meetings have been held during

the past Session.

At the first Meeting, held on November 12th, 1918, Mr. A. Hamilton Smith read a paper, illustrated by lantern slides, on The Temporary War-time Exhibition of the British Museum.' Mr. Smith explained that this exhibition was primarily intended to give our overseas visitors some idea of the treasures of the Museum, but as all the more important of these had been placed in safety, recourse was had as far as possible to casts; for this purpose they had used the madre forme, or stock casts made of every suitable object in the Museum. In this way an exhibition of the Elgin marbles was arranged, and the illusion was much helped by the skilful way in which the casts had been painted over the protecting varnish. One of the slides showed a view of the Elgin Room with the metopes encased in asbestos packing, as they were built into the wall and could not be moved. At the North and of the room were arranged cases containing selections of Minoan objects, ancient armour, Greek vases, objects used in daily life, and a long series of electrotypes of coins. An exhibition of busts, and of reliefs, etc. connected with Roman warfare was placed in another gallery, and the Grenville Library was devoted to books, drawings, and papers of special interest to the overseas soldiers, Mr. Smith added that over 2000 people visited the Museum on August 3rd. the first day on which the exhibition was open, and that there had been a continuous stream of visitors ever since.

At the second meeting held on February 11th, 1919, Professor Percy Gardner read a paper illustrated by lantern slides, on "A Bronze Head of Polycleitan Style," a recent gift to the Ashmolean Museum. An interesting discussion followed the paper, which will be published in the forth-

coming volume of the Journal. Professor Gardner was warmly congratulated on this beautiful addition to the Ashmolean Museum. At the third meeting held on May 18th, papers were read by Mr. D. S. Robertson, on "A Greek Carnival," and by Mr. J. T. Sheppard on "Admetus, Verrall, and Professor Myres." Both papers will be published in the next volume of the Journal.

Library, Photographic and Lantern Silde Collections.—The number of visitors to the Library during the past year was 539, the number of books borrowed, 531. One hundred and four books and pamphlets have been added during the year; most of these are gifts, as the Library Grant was an pended at the beginning of the war. Among these gifts special mention should be made of several volumes of early travel in the Levant; of a set of excerpts presented by Mr. G. F. Hill, and of a copy, complete to date, of the illustrated publication of the contents of the National Museum at Athens.

The Council acknowledge with thanks gifts of books from H.M. Government of India, the Trustees of the British Museum, the Ministry of Reconstruction, the Svenska Humanistik Förbundung of Upsala, and the following donors: M. Andreades, Mr. W. H. Buckler, the Misses Bulwer. Admiral Sir R. Custumer, G.C.B., Mrs. Arundeli Estaile, Miss Joan Evans, Capt. E. J. Forsdyke, Mr. E. R. Garnsey, Dr. Granville, Dr. A. W. de Groot, Mr. F. W. Hastnek, M. B. Haussoullier, Mr. G. F. Hill, Mr. J. C. Hoppin, M. K. J. Johansen, Sir F. G. Kenyon, Mr. J. G. Milne, M. Remantas, Prof. Rhys. Roberts, Dr. A. G. Roos, M. A. Six, Dr. Parkes Weber, and M. Zacharina.

The following publishers have also presented copies of recurity published works: Messra George Allen & Unwin, E. Armold, R. H. Blackwell, The Faith Press, The Gresham Publishing Co., Messra. Longmans, Green & Co., Methuen & Co., Mr. Humphrey Millord, and the University Presses of Oxford and Cambridge, and of Chicago and Vale.

The number of slides horrowed during the past session is 1327, a slight necesse on the figures for last year, the number purchased is 359, nearly three times as many; these include two large orders for S. Africa and the United States. Owing to the continued increase in the cost of materials it has been necessary to raise the price of slides purchased. The cost of these, however, remains considerably less than the current price.

The Council desire to express their special thanks to the Hon-Margaret Wyndham and to Capt S. Casson for large collections of photographs to the Royal Numismatic Society for a generous gift of slides and negatives, also to Mr. Dundas, Mr. F. W. Hashuck, Mr. G. F. Hill, and Mr. Arthur Smith for further gifts of slides, etc.

Finance.—As was foreshadowed in the last report it has been decided to close the accounts each year at December 31st instead of the end of May as heretofore, and the accounts now presented, therefore, cover only the

seven months from June 1st to December 31st, 1918. By making up the accounts annually at this time it will be possible in future to present a more accurate statement than was the case under the old system, although

for the current year the figures are necessarily incomplete.

So far as the present statement is concerned there is nothing of special interest to mention. The expenditure has been kept down to the lowest possible point, but in spite of this, and the saving gained by issuing the Journal in one complete volume for the year there is a deficit on the Income and Expenditure account, and, so far as can at present be seen, the current

year will also show a considerable deficit.

The Council are now compelled to look ahead, and as far as possible consider whether it will be possible in the near future to resume all the Society's activities on the same scale as before the war. During the past four years the Library grant has been suspended, but if the Library is to be as aseful to members in the future as it has been in the past the grant must be renewed and an effort made to overtake the arrears which have accumulated during the war. In this connexion it must be borne in mind that books are much more expensive, and that with the cost of labour and materials as at present the Journal will cost more than twice as much as in pre-war days. When it is remembered in addition to this that the revenue from subscriptions is nearly £150 less, the financial outlook for the future might be regarded as difficult. It is hoped, however, that the advent of peace will see an increase of interest in the objects and work of the Society, and a considerable addition to the membership roll. The high-water mark was reached a few years ago when the list ran to about 950 names. The number now on the books is about 800, and unless the work of the Society is to be considerably restricted it is essential that the tall in membership should be made up immediately and the number of a few years ago exceeded in the near future. This can be achieved only by the active assistance of members in introducing (andidates from among their friends. During the last twelve months some twenty new members have been elected, which is very encouraging in view of the difficulties of the time, and the Council believe that with the co-operation of the members in this direction the financial difficulties will be overcome.

In presenting the report MR. MACMILLIAN took occasion to refer to the death of Sir John Mahaify, one of the Founder Members of the Society He also referred to the services rendered to the Society during his term of office by the retiring President, Dr. Leaf, not the least of which were the inspiring addresses to which they had been privileged to listen at the Annual Meetings,

Mr. Macmillan concluded by drawing attention to the request of the Archaeological Joint Committee for drawings, photographs and notes made by Members who had been serving in the Near East and Mesopotamia.

The President then delivered the following address:-

The time has come for me, at the expiration of my term of office, to resign into more capable hands the Presidency of this Society with which you so generously invested me five years ago. I retire with the sense of the profoundest gratifude both to the Somety and to the officers and Council with whom it has been my privilege to work. Our name in particular you will allow me to mention specially on this occasion, that of one of my cidest friends, our Honorary Secretary, Mr. Geo. Macmillan. You will see by the Report that he has expressed a wish to be relieved of the office which he has so ably filled for farty years. He is one of the few remaining original members of the Society; he has been its first and only Hamorary Secretary. Only those who have served on the Council can fully appreciate the debt which we owe to him and his devotion to our interests for all this time. Presidents come and go; but he has survived them all, he, name than any man, has not only seen the Society into the world, but has fostered and guided it by his business capacity and his enthusiasm for all that is meant by Hellenism The Society can hardly seem the same without him at his post. He has indeed earned the right to be rule doutes; but we are all glad to know that he does not press his resignation at the moment. We all therish the hope that his natural affection for what he may fairly regard as his own offspring may yet nerve his heart for further service.

My own term of office has exactly coincided with the duration of the war. Elected on June 23, 1914, the very day of the Serajevo assassingtions, I retire on

the day which assures the definitive conclusion of peace.

It has indeed been an anxious period ; and our efforts, always under the shadow of the great preoccupation, have been directed to holding the ground which the Society has won through more than thirty years of work, as the focus of Greek studies in Great Britain. In that at least I hope that we have succeeded. We lawe at least maintained the two chief functions by which we energise, our meetings and our Journal; and I hope we may justly claim that we have maintained them at a level worthy of our past tradition. The Editors of the Journal will, I am sure, support me when I say that the difficulty they have had to face has not been that of any lack either in the quantity or quality of the contributions available; what they have had to struggle with has been the purely external and material obstacle of lack of paper, with the other moubles modental to the universal rise in cost of publication. We have handed in our inheritance undiminished, and save for allusions in our Reports our successors will see no faltering in the work which we have been able to produce and place on record during the vicisanudes of the tremendons struggle. I am not sure that they may not even see an enhancement of effort, The great outburst of energy which the war has called forth has, if I mistake not, shown itself in increased production even in fields remote from the war; the stimuslus given to mechanical output has extended itself with sympathetic intensity to intellectual effort; and has brought about, not a juded lassitude, but a redoubled activity in literary and scientific fertility of thought. It has certainly extended the general belief not only in education but in research , we have found that we can do far more than we ever believed possible, industrially and mentally alike. The untellectual standard has I think, been raised; our task is to see that it is not again lowered, and to establish irrevocably the step which has been taken towards the evolution of the superman. We are in the fluors and the pangs are distressing but I feel that there is new life to come. And I have never lost my confidence that in that new life our own Hellenic studies will assert the position that belongs to them of right

To me at all events Hellenson has never been more precious or more sustaining than during the last nive years. The affairs with which I have had to deal have been anxious and often trying; I doubt if I could have got through them had I not had the resource of Greek life and thought to which I could turn for relief. You

will I hope, excuss me for this personal testimony to Helleman; I feel sure that there are many others who will be able to say the same. While this is true,

Hellemsm will assure its own inture.

But if Hellenism is to assert itself, as I believe, it must not be content with merely holding its ground; it must give proof of vitality by fresh methods of research. It must recognise the new age by boldly scrapping so much of its present capital as is worn our. It needs at once new materials and new ways of thought. It must not be a back eddy beside the main current of contemporary thought; il must contribute its affaunt, or it will be drained dry to make room for something else. Historical Science in the wide sense has taken its place in moulding the course of the war; it is at the moment still more actively and closely employed in mould ing the peace. Hellenists must claim the right of Greek thought to be at the foundation of history; and they have to show how it is still living. The old blea that Halleman was a unraculous product, self-generated blossoming into its full and dazzling bloom in a couple of centuries to perish in another two, a department of human history which could be treated by itself as a piece of pure art or at less a beautiful meserm-that lifes has indeed passed away. But it has left its effects befund it, and the methods with which it was discussed and analysed are still working, with a sap like that of a decaying body, to poison where it once nourished

Will you allow ms to turn for a moment to my own special indirect. Homen a right understanding of the chiest Greek document is evidently of paramount importance to our comprehension of all Greek history. It is the best link is our possession between Hellomic civilisation and the older worlds of high culture which have been revealed in Greece at Troy, and above all in Laure. The innerworth century made great aftern and realised great advances fewards a right understanding; for a new place has opened; and in my opinion the methods of the nine-tenth century are new observed in them for a time; but his meanly twenty years now I have need them and believed in them for a time; but have endeavoured to turn my steps into new paths. The problem of the composition of the Rhad has proved in adults by any analysis which the mineteenth century small means. If it is ever to be solved I believe that it will be overcome not by a frontal attack, but as an incident of some outflanking movement. The mest promising outlook at the moment line, I think, in a combination of geography with archaeology.

Due to the line which I have embedy correct to take held to it, as I hashed to add by M. Victor Pérard and Sir William Rammay. All that I can hope to have done is to have peaked a little way along it: but I believe that in better hand than nine, it will prove profitable. Whether I am oght or wrong in the conclusions I have drawn matters not a jot, any more than it matters that in my opinion Pérard conclusions are wrong. That does not affect the matters, does the debt which I a knowledge to my profession. Where I believe we are right is in trying to confront Homes with lasts, instead at washing our time in wire drawn hypothesis which can be proved and disproved with equal confidence and organize. And the method meets to be applied not only to Homes that to all things (creek, all must be confronted with the realities of like. The spade-work of more philology has been

done and well done; now is the time for the applied science

In this task England has the lead, and it is for English Tellements to keep it Long before the war I had come to the conclusion that German Homeric schular thip was hoped selly effect and sierile. That conviction has now beer eleveled by the left and most authoritative interance of its effect representative, the Rector Magnificus of Berlin University, Herr Profes or Dr. Ulrich von Wilamowitz-Möllendorf. I have read his work Dre Plats and Homer, published in 1916; and is I mad I rubbed my syes to make sure that I was in the twentieth century; it seemed like an each of thirty years ago. Then it would have been a noteworthy

production, and would have set us all by the ears. To day it seems only one sad reminder among many of what Germany might have been if she had read the signs of the times instead of losing her bearings moral and material in the mist of her own conceil and negalomania. Believe me, German Homeric scholarship to-day is thirty years behind the times, and will have a hard and humiliating struggle before the lost ground is made up. It is for England to maintain the lead she has get. It it is still allowable to quote Faust, I would say to English scholars.

Was willst du dich das Stroh zu dreschen plagen?
 Lass da das dem Herrn Nächbarn Wanst.

Why wilt then plague thyself with threshing straw? Leave that to Neighbour Tunbelly.

that such progress in Greek scholarship as I look forward to depends largely on the acquisition of new material. The advances made in recent years have all spring from the work of the exception and explorer. This work has been radely interrupted by the war; if more light is to come, the task must be taken up again.

The war has been in this respect almost, but not quite, wholly destructive. Some positive results have been gained, as we shall bear presently from Captain Casson; we welcome them with a certain sense of relief, and consider our rives fortunate to have had in Captain Casson, a student of the British School at Athens—shortly. I hope, to be its Assistant Director—a trained member of the Hendquarter Staff of the British Forces at Salonika. We have had too, in yarous capacities and mostly in naval uniform, the assistance at the sent of war of each able and trusted archaeologists as Hogarith, Ernest Gardner, Carr Bosanquet, Dawkins,

Myres Ware and others

But, also, we must recognise that excavations carried on by sampers under fire, and still less excavations performed by the explosions of re-mach shells, are little suited to the exigent requirements of modern archaeology. A prehistoric turnulus lends itself admirably for the formation of a dug-out, and is perhaps somewhat more promising, though by no means ideal, for exact observation. But apart from this I feel confident that our archaeologists with the Forces have been able to do something towards preventing the needless destruction of ancient monuments. In the early days of the war the Society took pains to make representations to this effect in the highest quarters, and we received assurances that the strictest instructions to this effect had been given to the responsible others. You all know, I do not doobt, that when it was necessary to conduct operations of war in the neighbourhood of the ancient Didyma, Lieut-Commander Myres was sent alcft in an accoplane to direct the guns of the first so that no damage should be done to the ruins of the temple of Apollo. We have reason to believe that in this he was entirely successful Nor, I understand, was any harm done to the runs of Hissarlik by the shells of the Queen Elizabeth and her conserts. We have at least nothing on our consciences to set oil against the outrages which we connect with the names of Louvain and Rheims.

There is, however, one curious addition to the methods of the explorer which is directly attributable to the war. In the May number of the Geographical Journal there is a paper by Gol. Beazeley entitled 'Air Photography in Archaeology. Col. Beazeley there puts on record the discovery of an ancient city on the Thris, round the modern Samarra. It was a city some twenty miles long and anything up to two-and-a half miles in width, and must have supported a population of about four millions. In all probability it would have passed undiscovered but for photographs taken from the air. The traces on the ground were quite unnoticeable; but from the photographs the whole plan became plainly visible, with its wide main streets and branching roads, and the larger properties of the wealthy inhabitants along the river banks. In the centre was a great public garden, in the term

of four double circles tangential to one another, with a large payihim in the centre in addition, Col. Beazeley found a whole system of ancient irrigation by the same means—the main stream, the branching canals, and the regulating buildings by which the flow was distributed. The importance of this may evidently be very great, the advantage of starting the exploration of an ancient site with the plan already plotted can hardly be overrated. It is I fear, too late to hope that sites in Greece uself can still be discovered by this means; but there is perhaps a faint chance that one of our greatest desiderate, the site of Sybaria, might be thus located, and the exploration of it be thereby brought into the region of possibility. The allievial deposit there will I fear, be too deep to betray the sight differences in the tint of vegetation on which the method depends; but if by some happy chance it were otherwise, our knowledge of exth-century Hellenism imight receive new light only comparable to that thrown by Pompeil on the Graeco-Roman sgr.

But in such a region as Asia Minor the assistance of air photography teems to hold out a great and afform prospect of success. Unhappily the difficulties here

are of another and very grave nature.

You will allow me to cerall the proposal I made to the Society just nyr years ago. It was that we should undertake the publication of a full commentary on the three books of Straho dealing with Asia Minor. Though I do not think that I underrated the work to be done, I quite hoped that the task might be finished during my term of office. The Council warmly welcomed the proposal, and no time was lost in making our preparations. A Straho Committee was appointed the main principles on which the work was to be conducted were agreed, and some spacimen pages were printed. This was in the early days when we still family hoped that the war could not by any possibility last more than twelve mentle. Even before the total 4th of August I had interviewed several of those whose assistance was escential to us, and had begun to plan the division of the provinces.

One principle which we all accepted as fundamental was that no section should be entrusted to anyone who had not personal acquaintance with his territory. One or two large districts. I found, must wait till we could provide for special visits to this end. I could, for instance, discover no one qualified to deal with the interior of Caris—and even before the war I put myself into communication with Mr. Hasheck and Mr. Ormerod, in the hope of persuading one or other of them to travel

through the country and undertake the commentary for this region.

Before anything could be stranged, the whole of Asia Minor became for fidden land and the great pre-eccupation of the war in most cases precluded the aumerous scholars who had volunteered for the work from even tackling the pre-limitarry books work needed for the purpose. It is therefore my sad duty to tell you that the scheme has been wholly suspended during the war. In my own portion, the sections of Strato dealing with the Trond, I had, as it happens the somewhat unfair advantage of having been over the ground with the scheme already in my head, and with Strato in my hand. So far as I am concerned, therefore, my part is almost ready, and I can place it at the disposal of the Strato Committees to decide whether it is worth publishing as a fragment—I may mention that It forms one quarrer of the whole—or whether it should wait till better times to take its modest place in a completed whole.

Unfortunately it is impossible to hold our much hope of a completion of the work for a long time to come. Among the unhappy consequences of the war is a deep-scated untred in the Mahonmedan world, only intensified by the Peace Conference, and what is known of its proceedings. Sir William Ransay, who is of course the backbone of the Strabo plan had been hoping to get our shortly to Asia Minor, and once more set about his great work there. But I regret to learn from him that he hears—and no man is better informed—that at present it would be quite impossible for any Occidental to live and work in Anatolia, as deeply and gravely

is Moslom feeling stirred. The movement is such as to be a grave risk even to the British Empire, with its many millions of Mahommedan subjects. The installation of Italians and Greeks in Asia Minus is hitterly resented, and the prospects of a peaceful settlement of the Nearer East are rounde. Under these circumstances, I sudly fear that all scientific investigation of Asia Minor must for the present be indefinitely postponed. If Sir William Ramsay cannot sately work there, no European can.

In another way too the war has left sears on som science which will not. I fear, be completely healed in our own day. An irreparable blow has been dealt at the sense of international co-operation and tratemity in the advancement of knowledge. Here again our consciences are clear. The blow has not been dealt by us, but by our enemies. Whatever our private feelings may have been, we have put our names to nothing like the infamous manifesto of the og leaders of thought in Germany. These men, eminent in all hunches of science, including. I regret to think, Hellenism, pledged their human to a series of statements which they cannot have known or have had good ground for believing, to be true, maximuch as they have all been proved false. They have sacrificed their honour as gentlemen, and their honour as men of science.

Some of them—not, I hope, many—have gone further. Men who had received our hospitality and had lived here with all signs of friendliness and motual honour, have distinguished thenselves by attacks in England and Englishmen with a malignity and mendicity which can only be described as ferocious. I will not

mention names; one or two are doubtless known to you

Some of these names still stand on our list of homorary members. It is not for me to say how they should be treated. The Council doubtless wisely, determined to postpone the matter till after the end of the war; and that his not yet some. It is therefore left to my successor to preside over the discussion of the question, and I willingly leave it to his hands. That the outrage which scientific Germany has dealt to science should be either ignered or wholly condensed I cannot teel. But I trust that, as I took office with war. I may be allowed to lay it down with a note of peace. There will be a real League of Nations when Germany has made due recompense for wrongs and sued to be admitted again to fellowship. When that is duly done, Germany can again be admitted also to the fellowship of science which her insults have forfeited, and it should be on like conditions of apology and precis of sanity regained. With all my heart I wish that the day may come, and come soon. Humanity cannot afford to wait long.

The President moved the adoption of the Annual Report and Balance Sheet

Professor Gilbert Murray said that his first feeling on reading the Report was one of consternation at the announcement of Mr. George

Macmillan's impending resignation.

He could not imagine the Society without its Honorary Secretary, but took some comfort in the thought that the resignation was not to take place immediately. He desired to convey to Dr. Leaf an expression of gratitude for his address, in which even the most ordinary observer must note the effect of Helienic uniture. His own thoughts were prooccupied day and night by the future of this culture, but he felt that if it could be imbued with the broad and progressive spirit which breathed through the President's address, the lovers of Hellenism might look forward with confidence to the future. There was a heavy task before them, they must

be aggressive on its behalf, and much work would fail on the Society whose natural misson it was to champion the cause of the studies which it was formed to promote. He had much pleasure in seconding the adoption of

the Report.

H.E. Monsieur Gennadius in supporting the motion associated himself with what had been said by Professor Murray, both respecting the President's inspiring address, and the resignation of Mr. Macmillan. He, himself, had had the privilege of being intimately connected with the proceedings which led to the formation of the Society, and his connexion with it was one of his proudest recollections.

The President then put the motion, which was "arried ananimously.

A vote of thanks to the Auditors, Messrs C. F. Clay and W. E. F. Macmillan, proposed by Mr. A. J. B. Wace and seconded by Mr. E.

Norman Gardiner, was carried unanimously.

Mr. Macmillan begged leave to return thanks for the very kind words evoked by the announcement of his impending resignation, though in inserting the paragraph in the Report he had not been actuated by the spirit which led Lord Brougham to send a notice of his own death to the Times, in order to find out what people thought of him. It was true that he had asked to be relieved of the Hon. Secretaryship, but when a suitable successor had been found he hoped as Hon. Treasurer still to remain an Official of the Society with which he had been officially connected for an years (Applause).

The President then called on Mr. Stanley Casson (late G.H.Q. Balkan Field Force) to read a paper, illustrated by lantern slides, on Antiquities discovered on the Salonika Front. Mr. Casson shewed an interesting panorama embracing the whole mountain ranges from Lake Doiran to Rupil. The finds described extended from the prehistoric to the Roman age. Most of these are now in the British Museum. A list will be found in the fifth list of Accessions to the Collection of Slides

published in this volume, p. xlvi.

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TOPOGRAPHY

AND MONUMENTS IN SITU.

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MISCELLANEA TOPOGRAPHICA

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ITALY.

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B3644	ii läem Jutareas, 1907;
22017	o remains at the shrine of Chestina.
B2649	the Fahrician bridge, with the Aventine clocking Jown stream)
B2640	14 44 AND THE STREET, I TOOKING HIS STREET,
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B2851	Pompatt, the Via dell' Abbondausa in 1997.
B2007	a arch at the N coul of the Forum,
B2853	at street-windness of a dwelling baces.
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6366	terravotta dementione (id., pl. 2.)

SCULPTURE.

 $^{\bullet}=$ taken from original or adequate reproduction. $\uparrow=$ taken from \Longrightarrow .

0263 0441	Chaphren, * head of the green disrite status Cairo Mus. Head of Princess Nebut. * Cairo Mus.
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6320	Archain female figure" (waste type) from Auxerré. (Man. Pint. XX. pl. 1.) Archain "Apollo" from Sunium. (Athena, Nat. Man. No. 2720.)
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	Gorfu, malpinera from the archive polyment of theretar,
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0443	(lhomen)-Goather Apatio, Lead of
4804	pertial Museum A corner of the Rigin Rossi in August, 1918.
1357	Female figure of early Phonline style, Ash. Mrs. Front row, * (J. H & xxxviii, pl. 1)
1354	in it is it link sing," (iii,)
1849	Head, profile * (id., pl. 2)
1850	(if is is the Hand, fall time. 4 (id.)
0855	Athena and Marsyan ! Restoration with rasts of Myroulan Athena and Marsyan.
4504	Famille lead, fifth century.* Louvre Mus. (West Peet, xvii, pt. 15.)
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- Autocane, Lampacone, E. Cypoene, M. Jonim annotain, R. (N.O. 1917, pl. 8550 4 - 14119
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- D517 Ocoton, Symmuse, Al. Etraria, M. (N.C. 1917, pl. 1, 4)
- 9650 Oynions, El. Inniau amortidia, El. Loraquares, Amorans, Æ (N.C 1917, pl.
- Blaeness, Clinian small, M. Asgros, A. (N. 1917, pt 2, 1-11) 4065
- 0.547 Etraria, E. Creine, Syracuse, R. (N.C. 1917, pl. 1, 12)

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9556 Haraelea Limitales. [N.C. 1977, pp. 189-179.]
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       Lampanens, At (B.M. Guide, vi. A 8.)
B2107
       Lugdonna, coins of Augustes and Tiberims
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       Lysimacheta, J. Demetrina Pollbrechen, R. (N.C. 1917, pl. 1, 901)
 9568 Metapontum, At. (N.C. 1018, pl. 5, 14.)
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                     President, B. (8 cf. 1918, pl. 5, 1918)
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 9552
       Sagalassus and Tammas Alexandrina. Abydon, E. Alinda, &t. (AU 1915 pd.
         D. BERRY
 9582 Salamis in Cypros and Pirodarus, dynast of Carin, gold coinage.
 5577 Side, Andrigona, R. (Athons.)
 9947 Syracone, Croton, At. Erroria, E. (N.C. 1917, pl. 1, 14)
 9549 Tanagra, leaden proof. Athens, Al and A. LV.C. 1917, pl. 1, and the proof.
 5570 Tarentum, Metapontum, Al. (N.C. 1918, pl. 5, 1001)
 9553 Temenothyrse, E medallion, [N.C. 1917, pl. 3.3.)
                                   Dynasts, &c.
 9574
       Andragoran, N and R.
                       Coins illustrating volu-types of Andregorus.
 9575 Hearn of Zam, etc. at thert, Cyrone, Teres, Metapoutum
 9576 Chariot types. (Siden, Romano-Campanian compared with Andragors saype
       Andregues and Salo . R. compared. (Athena.)
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       Augustus, typical soins.
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                  and Tiberius, come of Lugdonum.
 1249 Constanting the Great, Constanting II, Constanting
B2170 Constantina II. Medals. (Kenber, Tal. vill.)
 9348 Demetrius Poliorcetes, A.; Lysmachess, K. (N.G. 1917, pl. 1, * 10.)
 9554 Demetrius I of Syria, Attains Epiphanes, Attiochus I R. Crodes II (III)
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       Orodes II (III). Autischus I, Atralus Epiphases, Dessetrius I of Syris, R. (N.O.
          1017, pl. 3, +4, j
 9579 Persis and Mallim, murapal bouls. Value (2) from Oxus pressure.
 8582 Pixodarus, dynast of Cara, and Salamis in Cypras. Gold coinage.
B2)71 Satriewan, A Denarins of, m.c. 77. [Wolf or reverse.]
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 5583 Gold callings of 4th sent. s.c. (Phillips, Pentarapaeum, Athens, etc.)
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5278	Wooden origin of Doris onles, diagrams. (Choisy, 1, H. Architecture, p. 238.
5979	Development of Ionic order, diagrams (Choise, I. L'Architecture, p. 388.)
816T	Methods of excavation; specimen sketches of atratification. (Droop, Archivel, Excep-
2100	plan and section to illustrate graphic publication. (al., p. 71.)
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4484	the corps dramatique.
5532	Hapry Schliemann : fater portrait with autograph.

THE BRITISH ACADEMY

CROMER GREEK PRIZE

Wirn the view of maintaining and oncouraging the study of Greek, particularly among the young, in the matienal interest, Lord Cromer has founded an Annual Prize, to be administered by the British Academy, for the best Essay on any subject connected with the language history; art, literature or philosophy of Ancient Greece.

The Prize which is ordinarily a sum of £40, is awarded annually in Minch, under the following Rules --

- I. Competition is open to all British subjects of either sex who will be under twenty-six years of age on 31 Dec. preceding the award
- 2 Any such person desirous of competing must send in to the Secretary of the British Academy on or below I June of the year preceding the award the tule of the subject proposed by him or her. The Academy may approve (with or without modification) or disapprove the subject; their decision will be intimated to the competitor as soon as possible.
- 3. Preference will be given, in approval of subjects proposed, to those which deal with aspects of the Greek genius and civilization of large and permanent significance over those which are of a minute or highly technical character.
- 4 Any Essay already published or already in competation for another prize of the same nature, will be inadmissible. A candidate to whom the Prize has been awarded will not be eligible to compete for it again. But an Essay which has not received the Prize may be submitted again with or without alteration, in a future year so long as the writer remains eligible under Rule 1.
- 5. Essays of which the subject has been approved must be sent in to the Secretary of the Academy on or before 31 Dec. They must be typed (or, if the author prefers printed) and should have a note attached stating the main sources of information used.
- 6. It is recommended that the Essays should not exceed 20,000 words, exclusive or notes. Notes should not run to an excessive length.
- 7. The author of the Essay to which the Prize is awarded will be expected to publish it (within a masonable time, and after any necessary revision), either separately, or in the Journals or Transactions of a Somety approved by the Academy, or among the Transactions of the Academy.

The Secretary of the Academy will supply on application, to any person qualified and desirous to compute, a list of some typical subjects for general guidance only, and without any suggestion that one or another of these subjects should be chosen, or that preference will be given to them over any other subject of a suitable nature.

Communications should be addressed to The Secretary of the British Academy, Burlington House, Piccadilly, London, W.

NOTICE TO CONTRIBUTORS

The Council of the Hellanic Society having decided that it is desirable for a common system of transliteration of Greek words to be adopted in the Journal of Hellanic Studies the following scheme has been drawn up by the Acting Editorial Committee in conjunction with the Committee Editorial Committee, and has received the approval of the Council.

In consideration of the literary traditions of English scholarship, the scheme is of the mature of a compromise, and in most cases considerable

latitude of usage is to be allowed.

(1) All tiresk proper names should be transliturated into the Latin alphabet according to the practice of educated Romans of the Augmentan age. Thus a should be represented by a the vowals and diphthongs v, as, or by y, as, or, and a respectively, final -os and -ov by as and -om, and -ove by -er.

Bur in the case of the diphthong at it is felt that or is more suitable than v or i although in names like Landiceo. Alexandria, where they are consecrated by asage, or i should be preserved, also words ending in soon must be represented by sump.

A certain amount of discretion must be allowed in using the o terminations, especially where the Latin usage itself varies or preten the a form as Dobs. Similarly Latin usage should be followed as far as possible in - and -a terminations, e.g., Preces. Supreme to some of the more obscure names ending in -assess Alaypos are should be avoided as likely to lead to confusion. The Greek form -on is to be preferred to -o for names like Dion. Hieron, except in a name so common as Apollo, where it would be pedantic.

Names which have acquired a definite English form, such as Corinth, Athens, should of course not be otherwise represented. It is hardly necessary to point our that forms like Hercules, Mercury, Minercu, should not be used for Hercules, Hernes, and

Athena

- (2) Although names of the gods should be transliterated in the same way as other proper names, names of personifications and epithets such as Nike, Homonoia, Hyakinthios, should fall under § 4.
- (3) In no case should accents, especially the circumflex, be written over vowels to show quantity.
- (4) In the case of Greek words other than proper names, used as names of personifications or technical terms, the Greek form should be transliterated latter for letter, k being used for κ ch for χ but y and u being substituted for ν and ον, which are misleading in English, e.g., Nike, aparyonemos, diadamenos, rhyton.
 - This rule should not be rigidly enforced in the case of Greek words in common English use such as degis, symposium. It is also necessary to preserve the use of on for or in a certain number of words in which it has become almost universal, such as boule, germusia.
- (5) The Acting Editorial Committee are authorised to correct all MSS and proofs in accordance with this scheme, except in the case of a special protest from a contributor. All contributors, therefore, who object on principle to the system approved by the Council, are requested to inform the Editors of the fact when forwarding contributions to the Juurnal.

In addition to the above system of transliteration, contributors to the Journal of Hellewic Studies are requested, so far as possible to adhere to the following conventions:—

Quotations from Ancient and Modern Authorities.

Names of authors should not be underlined; titles of books, articles periodicals, or other collective publications should be underlined (for italies). If the title of an article is quoted as well as the publication in which it is contained, the latter should be bracketed. Thus

Six, Jah-b, sviii 1903, p. 34,

08'-

Six, Protogenes (Jahrb. xviii: 1903), p. 34.

But as a rule the shorter form of citation is to be preferred.

The number of the edition, when necessary, should be indicated by a small figure above the line; e.g. Dittenb. SylL* 123.

Titles of Periodical and Collective Publications.

The following abbreviations are suggested, as already in more or less general use. In other cases, no abbreviation which is not readily identified should be employed.

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A -E.M. = Archiologisch-epographische Mittellungen.
Ann. d. I = Annali dell' Instituto,
Arch Ann. - Archiologischer Anzeiger (Belülat) zum Juhrbuch).
Arch Zeit. - Archiologische Zeitung.
Ath. Mill. = Mittsilungen des Doutschen Arch. Inst., Athenische Abrailung.
Baumrister - Baumrister, Denkindler des klassischen Altertums.

Baumrister - Baumrister, Denkindler des klassischen Altertums.

B.C.H. - Balletin de Correspondance Beldinkom.

Bart, Fas. - Furnwängler, Beschreibung der Vusensammlung zu Berlin.

B.M. Brown - British Massum Catalogue of Brouges.

E.M.C. - Beutsch Museum Catalogue of Grock Coins.
B. M. Inser, = Greek Inseriptions in the British Minserin,
B. M. Scolph = British Minserin Catalogue of Sculpture,
B. M. Terronolius = British Minserin Catalogue of Verson, 1893, etc.
B. M. Fann = British Minserin Catalogue of Verson, 1893, etc.
B. S. A. = Annual of the British School at Athens.
H.S.R. = Papers of the British School at Rome
Built, d. L = Bullettine dell' Institute.
Busalt - Dusalt, Grachasche Geschichte.
C.L.O. = Corpus Inscriptionum Generalis
C.L.L. = Corpus Inscriptionum Latinarum
Ol. Rev. Classical Review.
C.E. Apar, Dues. - Comptes rendus de l'Academne des Inscriptions-
C.E. St. Pil. - Compte rendu de la Commission de St. Petersbeurg.
Der. Sagl. - Deremberg Saglio, Dictromeure des Antiquités.
Dittenb. O.G.I. - Dittenberger, Operale Gracer Lescriptiques Solectas.
Dirtanh Salf = Dittanburgar, Sylloge Interrotionana Graecarum.
Gerh. A. F. = Gerhard, Auserlesene Vasenhilder.
G.G. J. = Gottingmehn Gelohite Anseigen-
Head, H.N. = Head, Historia Numorum
I: G = Inveriptiones Graceae_1
I.G.A. = Röhl, Inscriptional Gracese Anthonissinme.
Johre - Jahrhugh des Dentseinen Architelogischen Innettata
Juhresh. - Juhreshafte des Onsterreichsehen Archadogischen Lustington
J. H.S. - Journal of Hallenia Studies
Klio - Klio (Beitrüge zur alben Geschichte)
L. Bas-Wadd, - Le Bas-Waddingson, Voyage Archeologopus,
Michel - Michel, Recould d'Inaccipéture gresquis.
Mon. d. I. = Montamenti dall' Instrinto.
Maffer-Wies - Müller-Wieseler, Denkmaler der alten Kunst
Mas, Markles - Collection of Answert Marbles in the British Musianus,
New Johib, M. All — New Jahrbücher für das klassische Alterium.
New Johib, Phil – New Jahrbücher für Philologiu.
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II = Inser Attisae anna Emilidia retructiorre, II = n nontria quae su inter fond, Sill.

The attention of contributors is exist to the fact that the tithes of the values of the second issue of the Corpus of Grack Lineritations, published by the Priming Armberry, have now been shanged on follows:

n netatio ques est autor Equi, esta, es Anguera temposa, estatio itomismo. 10

^{111 =} Argulalla

¹V =

VII. = Magaziella et Hosertine, Orsacisa Saptentrionalis, IX- =

XIV = Insul Maria Acqual practor Balum. 14

Italian &L Sicilian.

Nisse - Nisse, Geschichte der gruebischen in makedonischen Staaten. Num. Chr. - Namiamarie Chronicle.

Num. Zeit. = Numismatische Zeitschrift.

Pauly Wissowa - Pauly Wissowa, Real-Encyclopadio der classischen Altertumswissenochatt.

Philad = Philologua

Ramay, C. E. = Ramay, Union and Ristopries of Phrygia.
Ramay, Hat. Geog. = Ramay, Historical Geography of Asia Minur-Reimon, Rep. Scalpt. = S. Reimach, Réportoire des Scalptures.
Reimoch, Rep. Fosci = S. Reimach, Réportoire des Vases points.
Res. Arch. = Revue Archivicaque.

Rev Et Gr. - Reven des Etudes Gresquiss.

Rev. Non - Reyne Numerarique. Rev. Philid - Revue de Philiologie th. Mas - themselves Massam

Ross Witt, - Mariellangerriles Deutschen Architologischen Instituta Rompete Abreilung.

Reschier - Roscher, Lexicon der Mythologie

S.M.O. Sparta Massum Calabania. T.A.M. Tituli Asun Missers.

Z. f. N.=Zeibscheitt für Numbumatik

Transliteration of Instrigitions

1] Square brackets to indicate additions, i.e. a lacuna lilled by conjecture

() Curved brackers to indicate alterations () (1) the resolution of an abbreviation or symbol [2] betters misrepresented by the engrees; (3) letters wrongly omitted by the engraver; (4) mistakes of the rappiel.

< > Augular brackets to indicate unissions, i.e. to enclose superfluous

letters appearing on the original.

. Dots to represent an similful facuum when the conet minuter of missing luctures is known.

- - Dashes for the same purpose when the mumber of missing letters is not known.

Uncertain letters should have does under them

Where the original has inta adsurpt, it should be reproduced in that form: otherwise it should be supplied as subscript.

The aspirate if it appears in the original should be represented by a special ign 8

Qualations from MSS, would Literary Texts

The same conventions should be employed for this purpose as for inscriptions with the following important exceptions -

Curved brackets to indicate only the resolution of an abbreviation or symbol

[] Double square brackets to enclose superfluous letters appearing on the ongmub

< > Angular brackets to enclose letters supplying an omission in the

The Editors desire to unpress upon contributors the necessity of clearly and accountely indicating accounts and breathings, as the neglect of this precaution adds very considerably to the cost of production of the Journal.

GREEK PAPYBI AND THEIR CONTRIBUTION TO CLASSICAL LITERATURE.

THE enemies of classics sometimes say that it is a dead subject. They depict the classical scholar as spending his time in re-reading, re-editing, or re-annotating texts which have been read, edited, and annotated for generations or centuries; and they contrast him with the student of science, before whom the inexhaustible riches of nature are displayed as his quarry. It were strange, if this were true, that classical study should possess—as by the common experience of public schools it does possess-a capacity unsurpassed by any other subject for turning out men of practical ability and aptitude for the affairs of the world.* But it is not true. The enemies of classics, in this as in other instances, have erected a dummy in order to knock it over. They may be reproducing traditions of their fathers, or of their own boybood; but they are showing that they have not kept abreast of their own times, and that they are not competent to criticise a study of which they know so little. Even natural science, with all its wonderful discoveries, has not been a more living subject during the last half century than the study of classical antiquity. Literature and archaeology-which mean the record of the thoughts of man as expressed in words and in art, during a period when that expression was at its highest pitch of perfection-have gone from discovery to discovery, from development to development, at a rate unequalled even at the Renaissance. These years have given fresh life to the study of the heroic age of human intellectual progress; they have shown that the treasures of antiquity are not only to be enjoyed but are to be increased

In the case of arr and archaeology, both the origins of this ago of progress and the period of great achievement date farther back than in the case of literature. The origins may be traced to the activities of the Society of Dilettanti in the eighteenth century, while the greatest achievement of all, the salvation of the Parthenon Marbles, is just a hundred years old; and this was followed, in the course of the next half century, by the excavations

⁴ This Paper was communicated to the Leads Branch of the Chainest Association at its fourth annual meeting, January 26, 1918. The Editors have to thank the Committee of

the Branch for permission to reprint it here.

² See Value of the Classics, ed. A. F. West, pp. 378-385 (Princeton, 1917).

and explorations which brought to light the temple of Phigalem, the vases of Etruria, the mansoleum of Halicarnassus, and many other examples of classic art. To the third quarter of the century may also be assigned approximately the development of that study of Greek and Latin inscriptions which has done so much to extend and vivify our knowledge of ancient history. These are the works of previous generations: but our own has progress at least equal to show. Troy, Mycenae, Tiryns, Olympia, Pergamum, Delphi, Crete, the Aeropolis of Athens and the Forum of Rome,—these are only the greater and more outstanding names which bring to mind the wonderful wealth of treasures and of information which has been disinterred by the explorer's spade within the memory of man still young enough to be wearing khaki to-day.

With literature the dates of discovery are later. We may start with the excavation of the Herenlaneum papyri in 1752, with the first discovery of a Greek papyras in Egypt in 1778, with the first literary papyras in 1821, or with the recovery of the first lost text in 1847. In 1877 a new step forward was made in the first discovery of papyri (mostly non-literary) on a large scale in the Fayum, but it was not until 1890, only twenty-eight years ago, that the great age of papyri opened with the discovery by Prof. Flinders Petrie of papyri of the third century a.c. in the cartonnage of mammies, and the acquisition by the British Museum of the group of manuscripts which included the 'Aθηναίαν Παλιτεία of Aristotle, the Mines of Herodas, and other literary papyri of great, though lesser, interest.

The papyrus age par excellence, thursfore, has lasted little more than a quarter of a century, but its wealth is such as to tax an hour's lecture even to anumarise, and to make us congratulate ourselves that we have witnessed it. Prof Rhys Roberts has asked me to undertake the task of laying before you a summary of its results; and if I have assented, it is partly because I would not willingly refuse a request from one who has worked so hard and done so much for the interests of classical study as Prof. Rhys Roberts, and partly because I think it is the duty of these who are engaged in any particular branch of study occasionally to give an account of what has been done in that particular field for the benefit of those who have entered the field later, or whose studies he outside.

I do not think there will be time to speak of the great mass of non-literary documents which form the main bulk of the papyri discovered in Egypt. They are counted now by hundreds of thousands, they cover a stretch of a thousand years, they contribute infinite details to our knowledge of Graeco-Roman life, law, and economics, they have written a new chapter of palaeography. Yet their interest cannot be so general, nor their importance so great, as the accessions to our knowledge of Greek literature which have come to as from a numerically small minority of the papyri, and it is of these that I wish mainly to speak

First, let us get some idea of the general extent of the field to be covered. I do not like to guarantee exact accuracy of figures, especially

since I have not been able to keep my records fully up to date during the last eight, and especially during the last three years. But you will not be far wrong in setting the total number of Greek literary papyri, extant and published, at about 920. In size they vary from rolls 30 feet long to scraps of the dimensions of a postage-stamp; in quality they range from an ode of Sappho to three or four mutilated lines of a perfectly wall known work, or an unintelligible and almost illegible fragment of some work unknown and unidentifiable. Yet from some points of view, as I hope to show, even the smallest of these fragments has a certain value.

Let us first analyse these figures a little more closely. Of these 920 paperi, about 570 contain portions of texts already known to us; about 350 contain texts which are now. Of the known texts, about 100 are Biblical or (in a few cases only) patriatic; and about 270 are Honoric. That leaves only about 200 specimens of the known classical authors in general, of whom the commonest are Demosthenes with some 30 representatives and Plato with about 20. Acschylus is almost unrepresented and Sophocles is in little better case; but Euripides occurs some 10 times in the list, besides [1] portions of his lost dramas. This, it may be observed in piesing is much what one would expect; but it is surprising to find that, while Thucydides and Xenophon are fairly well represented among the extant papyre, Herodomes has so far appeared very rarely and in very insignificant suraps. Of the philosophers, Plato was evidently a favourite as is but natural; but Aristotle is almost unknown. After Demosthenes, Isocrates is the most popular of the orntors, and Hyperides enjoys the distinction or having been restored to our knowledge from the papyri in no less than six substantial orations. Some extensive fragments of Lysies are promised for the next Oxyrhynchus volume. Aeschines just makes an appearance, but no more. No other author appears sufficiently often to require montion, though there are somewhat substantial pertions of the Rhetorica ad Alexandrum and of Nonnus. the latter himself an Egyptian poet.

I do not propose to go at length here into the question of the effect of the evidence of the papyri on the textual criticism of the Greek classics. It has, I think; been sufficiently shown (1) that the texts of the Greek classics current in the second and third centuries after Christ, and even in the second and third centuries before Christ, were substantially the same as the texts that we have now; (2) that modern criticism has generally been right in determining which among the extant vellom manuscripts, on which our present texts depend, are the best, but has often gone too far in pinning its faith exclusively to these authorities; (3) that modern critics (if the papyri are to be trusted) are soldom felicitous in the detection and emendation of corruptions, except in the smallest and most obvious cases; (4) that some corruptions which unquestionably occur in our present texts are of very early date, and have held their own through many centuries during which ancions Greek was a spoken language. With these propositions apparently well

established, and confirmed by each succeeding discovery and publication, we may, I think, read our classes to ourselves in confidence, but shall proceed to emend them with diffidence; and these conclusions, I take it, will be comforting to most of us.

Let us turn now to the 350 papyri which contain texts previously unknown. The more important among these are, of course, the great prizes of the Egyptian lucky-bag, really valuable accessions which our knowledge of Greek literature has obtained from papyri. There are some twenty which may fairly be ranked in this class, and they cover nearly all the different species of Greek literature. Theology, lyric poetry, tragedy, comedy, history, oratory—all have received notable additions of real literary interest; epic poetry and philosophy alone have so far been unfortunate. Let us look for a moment at each of these classes. Though all these discoveries are curtainly known to you, it may be useful occasionally to take stock of the gains that have been made.

Of theology I shall not say much, because it hardly comes within the purview of our Association. But no survey of the papyrus literature would be complete without at least a reference to the two remarkable fragments of Aéyor (popularly, but incorrectly, termed Aéyor), or Sayings of our Lord, which were found in the rubbish heaps of Oxyrhynchus, with which must also be classed a few fragments of uncanonical Gospels which belong to the same type of literature. The vellum manuscripts of the Gospel and Apocalypse of Peter, and the valuable uncial manuscripts of portions of the Septuagint and New Testament, now in America, though discovered in Egypt, were not, so far as is known, found with papyri, and can hardly be reckoned here. On the other band, the early fragments of New Testament papyri, now fairly numerous, give us valuable light on the transmission of the text of the Gospels in the first three Christian centuries.

In lyric poetry the new accessions are many and various and of high interest. Least in bulk but not in quality are the few stanzas of Sappho solited by Schubart from some damaged leaves of veilum at Berlin, and the fragments, many in number but seldom admitting of connected restoration. published in vol. x, of the Oxyrhyuchus papyri. They give us no complete ode; but they give us several connected lines and stanzas not unworthy of the name and fame of Sappho, and to say this is to say all. Baid uto, alla ρόδα. With these may be mentioned also the Louvre fragment of Aleman, containing three columns of a maidens' charas, which is practically all that we have of this early and interesting lyric post. Next come the poems of Pindar in the fifth volume of the Oxyrhynchus Papyri; and the epinteian odes and pacans of Bacchylides in the British Museum. Portions of two dishyrambs and of some of the Olympian odes of Pindar will appear in the next Oxyrhynchus volume, but otherwise the great epinicians are unrepresented Like Assebylus, Pinelar was too difficult for the ordinary provincial. The pseans, though they recall the style of the epinicians, are less difficult and, it must be admitted, less splendid than the great Olympian and Pythian odes which are the glory of the name of Pindar. Bacchylides, on the other

hand, like Hyperides and like Menander, the recovery of which we owe likewise to Egypt, is among the easiest of Greek anthors. His merits are of the minor order—ease, lucidity, a picturesque handling of spithets (often coined for the occasion), pleasant touches of natural accnery, simple moralities which are perilously near platifudes, and withal a Hellenic grace and sense of beauty which redeems everything. Nothing but his direct appeal to men of simple understanding (and such, it is safe to say, were not a minority among athletes and the patrons of athletes) can have saved him from utter annihilation in the competition with Pindar; but the recovery of so large a portion of his poems is a very great gain to our knowledge of Greek literature, a most instructive foil to Pindar, and a serviceable introduction to the study of Greek lyries. But if we could recover Simonides, we might find there something of the limpidity of his nephew, combined with not a little poetry worthy to be compared with that of their Theban rival.

Timotheus, the last of the new lyric poets in date, is as complete a contrast to Bacchylides as can be imagined. Burne Jones once said, a propos of the Pergamum sculptures now at Berlin: Truth is, and it is a scientific induction, that whenever Germans go forth to dig and discover, their special providence provides for them and brings to the surface the most depressing, heavy, conceited, dull products of dead and done-with Greece; and they ought to be thankful, for it is what they like."

I do not make myself responsible for the permanent truth of this obiter dictum, and it is not to be denied that, if the Germans have not hitherto had the fortune to acquire any of the great new literary treasures, they have at least known how to make good use of those which have fallen into the hands of others; but Timotheus might have been made expressly to illustrate Barne Jones' law. So crabbed that even in his own language he must be rather spelled out than read; so forced, contorted, and exaggerated that he is simply not translatable into any other language; so devoid of beauty of idea, of phrase, or of rhythm that it is only by remembering that his verses are but the libretto to a musical composition that we can understand his being tolerated at all; he contradicts in every respect the ideals of Hellenie art and tasts. He is a curiosity, a monstrosity, an addition, no doubt, to our knowledge of Greek literature, but an addition such as we may hope, for the credit of Greek literature, will not be repeated.

Of tragedy, unfortunately, there is not much to be said. We have no complete new play, not even a complete new scene; but we have learns something of three among the lost plays of Euripides. The sixth Oxyrhynchus volume contains considerable fragments of the Hypsipyle, enabling us to reconstruct the greater part of the plot, and giving long connected passages both of implies and of lyric dialogue, which are interesting if not notable. The Petrie paperi gave us a substantial fragment of the Antions. And a vollum leaf at Berlin has a complete speech from the Cretans, containing an elaborate defence of herself by Pasiphae, which is a striking and characteristically Europidean handling of an obviously difficult situation. Mention

should also be made of the fragments of a play, apparently Sophoclean, on the subject of Enrypylus; but these, though numerous, are very small, and barrely a score of lines can be restored with confidence.

Between tragedy and comedy comes the satyric drama, our acquaintance with which, hitherto limited to the Cyclops of Euripides (for I refuse to regard the Alcestis as satyric in any true sense of the term) is notably increased by the discovery of some fifteen consecutive columns in fair condition of the Ichneutae of Sophoeles. The story is that of the theft of Apollo's cattle by the youthful Hermes. The style has the grace of Sophoeles, without his subtlety. The impression is given that the poet did not trouble himself greatly over this class of composition, but was content to produce a passable librorto for a dramatic entertainment which would lighten the strain of a series of tragedies.

In comedy the finds have been more extensive, for here what may be called the obvious discovery has at last been made—the discovery which a priori one would have regarded and did regard as the most likely of all discoveries-I mean of course, Menander. Passages of some length from two of his plays had previously been published, by Nicole in 1897 and by Grenfell and Hunt in 1899; but not until M. Lefebvre's publication, at the end of 1907, of the volume containing four plays which he had himself discovered in Upper Egypt, could it be said that we had the means of farming an independent estimate of Menander's merits. Even now it is not quite easy to judge him fairly. The four plays are, unfortunately, far from perfect. We have about half of one play (supplemented by a vellum leaf from Oxyrhynchus), about a third of another, and smaller portions of two more; though one of these (the Hepixerpopera) is supplemented both by the fragment previously published by Grenfell and Hunt, and by a later fragment of some 120 lines at Leipzig. All (except the vellum fragment of the Emergements) may be most conveniently studied in the Teubner text by Koerte (1910). A few additional fragments have since been published by Grenfell and Hunt. We are still, therefore, unable to follow out the course of a whole play, and consequently we cannot form a proper judgment as to Menander's management of the plot; but the Lefebvre papyrus does give us complete scenes and adequate specimens of his dialogue, language, and stage management. Some scholars have declared themselves disappointed with the result, and I do not presume to say authoritatively that they are wrong; but to me personally Menander seems to have many merits, which do not diminish with repeated reading. In particular, the plays seem to me to land themselves well to elever character acting on the stage. They have more brightness and movement than the Roman copies of them, more delicacy of characterization; and they have the grace of style which one expected, though with fewer of those epigrammatic and sententious lines which the extant fragments had led one to anticipate. It is not my business now however, to undertake a detailed criticism of Menander, but merely to register his reappearance as one of the boons for which we are indebted to the papyri. Whatever be our ultimate judgment, it is at least a gain that

we are able to form a judgment at all for ourselves on the most famous name in the annals of the New Comedy.

In close connection with comedy may be mentioned what is perhaps the most novel and surprising of all the papyrus discoveries, the Mimes of Herodas. Here is practically a new and almost unsuspected genus of literature, and by excellent good fortune the papyrus to which we owe it is in exceptionally good condition; so that we have six of these miniature comedies practically intact, with fragments of four or live more. In calling them miniature comedies I do not wish to prejudge the question whether they were primarily meant for actual representation on the stage. My own belief is that they were not; but high authorities have taken the opposite view. However this may be, we have here some perfectly unique genre pictures of Greek life-common life, vulgar life, sometimes sordid life, if you will, but yet life. They are totally without the poetry of Theocritis, but they have a clear-cut, uncompromising realism, which gives them incomparable value. Among all the gifts from the papyri, there is none which has so clearly enlarged our knowledge of Greek literature by the addition of new conceptions.

Two classes of poetry are represented in the seven leaves from a papyrus codex of Callinachus, published in the seventh volume of the Oxyrhynchus Papyri. About 90 lines of elegiacs contain the story of Acontius and Cyclippe, from the fourth book of the $Al\tau ia$, and these are followed by some 300 lines (unfortunately much more mutilated) from his " $Ia\mu\beta ai$. With these may be classed some 60 complete lines and a large number of fragments of the $Me\lambda ia\mu\beta ai$ of Cercidas of Megalopolis, which at any rate give some substance to a poet who was previously only a name.

There remain history and oratory. It is much too late in the day to revive the discussions which accompanied the appearance of the most discussed, perhaps the most sensational, of the new papers, the 'Adquaian Holitela of Aristotle I say of Aristotle' advisedly, for I believe it to be as truly the work of Aristotle as any of the other works that pass under his name; though I am far from claiming for it equality of importance with his greatest works. But it has unique value, first, in its historical section, as a representation of a view of Athenian history different from that of Herodotus and Thouydides, and protably a view more popularly and generally current; and secondly, in its descriptive section, as a first-hand account of Athenian institutions which at once supersides and greatly amplifies the second-hand authorities on which we have hitherto been dependent. It is unquestionably a find of the first grade of importance.

As for our other new historian, the historian of Oxyrhynchus, what are we to call him? It is difficult to see with what right one can give the name of Theopempus to a work which is the antithesis of all we know and all which tradition has handed down to us as to the style of Theopempus. Yet when scholars of the rank of Wilamowitz and Meyer propound this identification, one cannot be surprised that it was adopted by the first editors, though no one has stated more clearly than they the arguments which tell

against it. We may, with Mr. Walker, ussign the work to Ephorus, a more probable though not fully convincing conclusion. If we call him Cratippus, we have at least the advantage of a name without connotation, which will not suffer by being associated with what, it must be confessed, is a somewhat lifeless and uninteresting narrative, though not without features of importance. If the portion of him which has come to light had related to the events of a few years earlier or later, it might easily have been a find of the first value; but here Fate has been unkind.

Still, everything that gives us a wider knowledge of the representations of their own national history which were current among the Greeks is a real gain. We have been so accustomed to regard Herodotus and Thucydides. especially the latter, as the standard histories of Greece that it is not easy to realise that the Greeks of the fourth and later centuries did not look on them in the same light. The popular histories of the day were much rather those annalistic records, often known as 'Articey, of which the most important were apparently those of Androtion and Philochorus. The former has been suggested as a possible author of the Oxyrhynchus fragment, but with very little probability. Of the latter we have acquired some additional fragments in the commentary of Didymus on Demosthenes, of which a considerable part is in a papyrus at Berlin, published by Diels and Schubart in 1904. It is a portion of the commentary on the Philippies, dealing with four orations, and is of interest partly for its copious citations from Philochorus and other lost historians, and partly for its express attribution of the eleventh Philippic (the gennineness of which has long been suspected) to Amximenes. It cannot be said that this discovery does much for the reputation of Didymus himself. It is more to the credit of that inexhaustible commentator's industry than his judgment.

The mention of Demosthenes brings us to the last category to be dealt with, that of oratory. This, as it happens, was the first to be enriched by the recovery of a lost author from the papyri. Hyperides was one of the most popular of Attic orators; he was also one of the ensiest; and it is less surprising that his works should be found in Egypt than that he should ever have been lost at all. It is, however, rather remarkable that so many substantial manuscripts of him should have come to light. In 1847 two English travellers in Egypt, Mr. Harris and Mr. Arden, independently obtained portions of a long roll containing three orations, that against Demosthenes and those for Lycophron and Enxemppus—the first (which would have been the most interesting) miserably mutilated, the last quite intact. Nine years later Stobart acquired an almost complete copy of the Funeral Oration, apparently written as a schoolboy's exercise on the back of a used roll of papyrus. The conclusion of the almost unknown speech against Philippides was among the great British Museum haul of 1890; and

Bulitar

³ This identification gains some support from the fragments of Ephorus published by Grentell in vol. ziii, of the Gryrhynchau

A upda uhi dusurakho via dikloma,

in 1892 appeared perhaps the most valuable of all, the speech against Athenogenes, now in the Louvre. We have now, therefore—thanks to Egypt and the papyri—ample means to form an opinion of the famous contemporary of Demosthenes; and here, once again, we find the judgment of the author of the De Sublimitate, the most penetrating and original critic of antiquity, fully justified. In elequence, in passion, in force, in moral earnestness, in all that makes the great, as distinguished from the talented, orator. Hyperides cannot be mentioned in the same breath with Demosthenes; but in case and lucidity, in grace and persuasiveness, in the simplicity due to consummate art, he is a characteristic Athenian, a worthy successor to Lysias.

So much for the great prizes in the lottery, the substantial additions to Greek literature. I will not panse to estimate their value more minutely, because I wish to dwell for a few moments on another part of my subject, namely the value of the minor literary papyri, the small fragments which in themselves seem so useless, so merely tantalising. What can be the value of a dozen imperfect lines by an unidentified author? Is even the recovery of half a dozen sentences which we can assign to a definite author (usually because part of it was known before) a matter of any real importance? They are not even passages selected, as in an anthology or in the quotations of later authors, on the ground of their beauty or special interest. They are merely chance sentences without a context, and rarely can give us a new fact or a new idea, or even a striking phrase. Nevertheless, they have a value, not so much individually as collectively, not so much fer what they actually contain as for what they prove with regard to the history of Greek literature Each by itself is little better than useless; collectively, they give us some idea of the character and extent of Greek literature circulating in Egypt, the most important province, from the literary point of view, of the Hellenistic world. It is on this aspect of the matter that I wish to say a few words.

In the first place, the number of them is suggestive. Putting the Christian writers and Homer on one side, the total number of portions of works previously known that have been discovered is about 200; but the total number of portions of unknown works is about 350. In other words, for every single work of Greek literature now extant, two which have since disappeared were apparently extant in Egypt in the early centuries of the Christian era. There is no solid reason for doubting the conclusion thus suggested. The great majority of the papyrus fragments with which we are dealing come from the rubbish heaps of towns like Ozyrhynchus, and belong to the first three centuries after Christ, and a fair number are later still. It

I should perhaps have added, though it is rather scientific than literary, the long Medical Papyros shiels formed part of the British Museum acquisition of 1890, and which contains considerable extracts from the Interior which passed under the name of

Aristotle, though actually compiled (seconding to Galen) by his disciple Monon. It was edited by Dials under the title of Anonymic Londinausis ex Aristotelis Intricis Manoniis et afiis Medicir Eclogue (1893).

has sometimes been suggested that in the late Hellenistic, and still more in the Christian period most of the lost classics were already lost, and that the grammarians (and oven authors like Plutarch) who quote from them derived their knowledge from epitomes and anthologies. The facts revealed by our census of extant papyri do not confirm this suggestion: If a few provincial towns and villages in a single country possessed so large a number of copies of works now lost to us, what occasion is there for us to limit the possibilities of Alexandria, of Antioch, or of Constantinople? The Greek resident in Egypt in the third century had the opportunity of reading thrice or four times the number of works of Greek literature that have come down to us

The range of this literature was also very wide. Among the new texts which can be identified with more or less certainty are works of Hesiod. Alcidamas, Aleman, Archilochus, Sappho, Alcaeus, Pherecydes, Pindar, Corinna, Epicharmus, Sophron, Simonides, Sophocles, Euripides, Aristophanes, Cratinus, Menander, Philemon, Euphorion, Antiphon, Lysias, Isaeus, Aristotle, Aristoxenus, Hierocles, Sosylus, Chariton, Didymus, Julius Africanus not to mention Bacchylides, Hyperides, Horodas, Callimachus, Timothesis, Cercidas, who have been described already. The unidentifiable texts include poems in hexameters, tragedies, comedies, mimes, lyries, histories, speeches, philosophical treatises. Since all these were accessible in central and upper Egypt, there is no reason to doubt that the Alexandrian library, even after the great conflagration in the Caesarian war, really possessed Greek literature in substantial completeness, and that the grammarians and commentators for several centuries had before them the complete works on which they commented and not merely excerpts and elegant extracts

There is one comforting reflection to be drawn from this state of things. If all this mass of lost literature was extant in Egypt in the times and places now accessible to the spade of the explorer, there are no limits to what may yet be discovered. Few authors could have been selected as less likely to be restored to us than Herodas and Timotheus; yet restored they have been, no less than Menander and Hyperides, who would have been named as the most likely. No one can forecast the taste of the next dead Graeco-Egyptian of literary proclivities whose tomb may be discovered, nor guess what books he

may have chosen to take with him to his last hed.

It remains to consider the quality of the lost literature thus partially revealed to us, and its relation to that with which modern civilisation has been acquainted since the Renaissance. Here we are like Virgil's traveller, who

Aut videt, aut vidisse putat, per nubila lunam.

It is hard to judge literature fairly from mutilated fragments. Even when all Germany has tried its hand at restoring them, it is possible to suspect that something has been lost in the process. But on the whole it is the moon and not the sun that we see through the clouds. Nothing in the recovered literature equals the splendour of the best that we have known

before. Hyperides is not the equal of Demosthenes, Bacchylides is not the equal of Pindar: Findar himself, in his pacens, does not reach the heights of the best of the epinicians. Herodas, Timotheus, Comma, give us glimpses into new classes of Greek literature which are of the greatest interest; but in charm, in poetry, in genius, we have known greater than these. The familiar paradox of Bacon, 'that time seemeth to be of the nature of a river or stream, which carrieth down to us that which is light and blown up, and smketh and drowneth that which is weighty and solid 'finds no confirmation from these dredgings into the drowned depths of time. We may indeed still believe that in some departments of literature, notably in lyrical poetry, we have lost works as fine us any that we possess; but it is just here that the paper have hitherto given us least, and consequently it is just here that we

have least ground to expect help in the future.

To illustrate this point, let us see what literature is represented among the flotsam and jetsam of Egypt, and what is not. Homer, of course, is there in full and overpowering predominance; and we even have glimpses, in the third century s.c., of a somewhat unfamiliar Homer, padded out with superfluous lines and repetitions, the exact process of whose disappearance from our standard text is not yet fully elucidated. But of the Cyclic poems, which might throw so much light on the conditions out of which the Hind and Odyssey came into existence, nothing whatever has been found. The Hesiodic school is better represented—not the rural school of the Works and Days, but the congeries of traditional mythology hitherto known to us in the Theogonia and the Shield of Heracles. We have portions of the legends of Bellerophon and Meleager, and we have some decidedly interesting fragments of the story of the Suitors of Helen-notably the lines which explain how Odysseus came to form one of the party, not because he either hoped or wished to carry off the prize, but because he did not see why he should not have a share in the good things that would be going; while on the other hand, as he did not intend to be a serious competitor, he was strictly economical in the complimentary offerings which be brought. It is in the lyrical period, perhaps, that our losses have been greatest; and here the papyri have not done much for us. We have indeed substantial gains in the public odes of Pindar and Bacchylides; but I am speaking now of the private and personal lyric. A few fine lines of Sappho we have indeed recovered; but nothing of Stesichorus, Anacreon, Ibyens, and practically nothing of Alexeus, Archilochus, or Simonides. Another department of literature in which accessions of knowledge would be very welcome is the Old Comedy. I do not believe that any discovery that might be made would overtop the Birds or the Frogs; but one would very gladly have some more Anstophanes, or some of the work of his chief rivals, Cratinus or Eupolis. But here all that we have got is a portion of the argument of one of the plays of Cratinus. So too in tragedy, we have no more Aeschylus, and nothing important of the serious work of Sophocles; nor can we yet gratify the curiosity which Plate arouses in us as to the merits of Agathon. In history, we have no trace of Hecataeus on the one hand nor Theopompus on the other; unless, indeed, the Oxyrhynchus historian be Theopompus, and even then the fragment does not belong to his great work, the Philippica. These (and perhaps one may add some more of the epigrams of Melenger) are the gaps which we should wish to see filled, and in which we might most hope to find something which would rival even the best that we know already. But though, as has been said before, anything is possible, the paperi have not yet held out any hopes of gratifying our desires. On the whole, and quite naturally, it is the later, and generally the easier, authors who seem to have been the most popular among the provincials of Roman Egypt; and among them we have found nothing to displace the previous possessors of the highest seats on the

slopes of Parnassus.

We are not called on therefore, to revise our estimate of the great Greek writers, nor of the general character of Greek literature; but we are called on to welcome the widening of our knowledge and the quickening of our interest in it. And surely this quickening has come at a very opportune moment. At a time when Greek has to fight for its place in the education of our cultured class, it is no small thing that the living interest in it of scholars and men of letters should be maintained and intensified. The discoveries of new texts do not indeed do anything to meet the objections of those who would banish Greek from our carricula because their boys will not read Greek in after life; for those are objections which can never be fully satisfied until a general education is limited to reading, writing, and an acquaintance with the simpler processes of arithmetic, together with a courier's knowledge of French and German. But the new texts do much to meet the criticisms of these who used to complain that Greek scholarship is sterile, a special preserve of pedants who spend their lives in a heavy round of editing and re-editing authors who have been already over-edited in previous generations. It is not merely that they provide new materials for specialists to work on though it is no small boon that scholarship should be able to test its powers in new fields; but the fresh light thrown upon the familiar authors, the fresh literary questions that are raised, and that affect our conceptions of Greek culture, these give new life to the whole study of Greek literature.

And further, even the indifferent can hardly help being forced by these discoveries, and by kindred discoveries in the sphere of archaeology to face once more the great fundamental question of the place which Hellas holds in modern European civilisation. The extraordinary vitality of these new poems, histories, orations, wherever they are sufficiently complete to exercise their fall effect, proves that the literature of Greece is indeed bone of our bone and flesh of our flesh. The literature of Greece still speaks to us with a living voice, like that of our own classics. It is simply not possible to think away the Greek elements of our civilisation; and I, for one, cannot believe that our civilisation, and especially our literature, could maintain its tone if the knowledge of Greek were confined to specialists who had a particular aptitude for it. It is not only these who can read Plato with their feet on the fender

who derive benefit from an acquaintance with Greek. A traveller who has once visited Paris or Venice has a much livelier understanding of the history of those towns, a keener and more intelligent interest in their fortunes, than one who has never seen them, although his knowledge of them is not to be compared with that of those who have made them their special study. So it is with literature. The boy who has struggled not much more than half way up his public school, and who drops his classics with relief-as indeed he drops his mathematics, his science, his history, and, if he can his French and German-as soon as he leaves school and takes his post upon an office stool, has yet the key which admits him to an understanding of much that he cannot avoid seeing and hearing and reading. Education should give to boys and girls the keys of as much knowledge, of as many different branches of knowledge, as can be managed in the years available. Time will show which of them he or she can use most effectually; but to take away the key which unlocks the door of the richest literature in the world, the literature which is not only at the base of, but which permeates, our own literature, our philosophy, our history, even our science, is surely to play the part of the scribes and hypocrites, to shut up the kingdom of heaven against men.

But I must not, at this hour, diverge on to this fertile and engrossing subject. The point I wish to press is that the discoveries of Greek paper which our generation has been fortunate enough to watch have played no small part in strengthening the hands of the defenders of classical education and of humanistic education in general. They have therefore a double claim on the interest of members of the Classical Association, even beyond the intrinsic importance of their contribution to literature itself and to our knowledge of Greek literature. I do not want to exaggerate the value of that contribution, and in the estimate I have given of the principal discoveries I have tried to be as judicial and dispassionate as possible; but on the lowest estimate the gain is great and important. Further, it supplements and corrects the balance of the artistic and archaeological discoveries to which allusion was made at the beginning of this paper. There was at one time a danger lest literature should be neglected for the newer charms and more fertile fields of archaeological research, but the papyri of Egypt have redressed the balance. The interest which was being attracted to possberils has been recalled to papyri. We have substantial new works of postry to set against the Hermes of Olympia and the Charloteer of Delphi; we have new histories to compete with the histories revealed by the excavations of Troy, of Mycanae, and of Crete. And both branches together, literature and archaeology, confront these who would depreciate classical education with. ever increasing evidence of the anagoing vitality of Hollas. Truly, for all those who love literature and who recognise in Greek literature the highest expression of the human mind, the deserts of Egypt have blossomed as the rose. F. U. KENYON.

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THE VALUE OF PAPYRI FOR THE TEXTUAL CRITICISM OF EXTANT GREEK AUTHORS.1

An excellent survey of the evidence of Greek papyri for purposes of textual criticism together with some cautions generalizations was given by Sir Frederic Kenyon in the Transactions of the British Academy, 1904. The following paper gives a sketch of the present position of the question in the light of both his article and the new evidence which has account in the

last 14 years.

In literary papyri from Egypt the proportion of extant to new texts is very small in the Ptolemaic period (a.c. 323-30), when apart from Homer, Euripides. Plato, and Demosthenes that all too scanty portion of Greek literature which has survived did not yet stand out very conspicuously from the rest in popularity. In the Roman period (a.c. 30-a.c. 284) the proportion of new to extant works represented in literary papyri is more in the direction of equality, while in the Byzantine period (a.c. 284-640) after the general adoption of Christianity there was a rapid decline of interest in classical studies, and by the 6th century not very many lost classical works seem to have been commonly studied in Upper Egypt, from which the papyri come. In 1904 Sir Frederic Kenyon was dealing with 189 papyri of extant works, of which 109 belonged to Homer, 80 to other authors. Now, however, nearly 300 more have to be added, of which about 120 represent anthors other than Homer, so that the material for examination is more than double.

The papyri of Homer, who claims over half the whole amount, fall into two classes. There is on the one hand a group of 9 MSS, belonging to the 3rd or 2nd cent. a.c. which are remarkable for (1) containing a number of additional lines not found in the common text, (2) generally at the same time omitting a few lines which are usually read, and (3) having many new variants in lines which are common to the early papyri and the ordinary text. On the other hand the great mass of Homeric papyri from the 2nd cent, i.e. down to the 7th cent contain the vulgate text in substantial agreement with the vellum MSS (which date from the 10th cent, onwards),

(Berlin, Weidmann, 1918), and V. Martin in Les manmerats autiques des classiques grees (Geneva, Knudeg, 1919).

A paper read to the Heliumo Society, May 7, 1918. The subject has since then been briefly treated by W. Schulmet in th. v. of his Engineering in dir Papprashinde

though presenting occasional novelties, of which a few have been accepted by Mr. Allen in the Oxford Homer. The first of the abnormal texts to be discovered was a fragment of Il. xi. (P. Petrie i. 3), which has 5 new lines and omits 3 old ones in the space of 36 lines. A Geneva fragment of IL. xi-xii. has it new lines out of 70, and considerable alterations in 5 others, Then numerous pieces of 3 other early Ptolemnic papyri of the Had (from til. - v., viii., and xxi - xxiii.) were found by natives in 1895 and sold partly to to me, partly to Heidelberg. Several years later Prof. Hunt and I were fortunate enough to track the source of these fragments (a tomb at Hibeh) and secure the rest of the find. There are now parts of over 600 lines from these 4 Hibeh papyri so that a fairly good idea can be obtained of the text which they represent. About 10 per cent, of new lines are added, and 2 per cent omitted. A 1st cent. B.c. fragment of Il xviii (Berl. klass. Texte v. 1. p. 18), containing parts of 17 lines, is remarkable for inserting a new line after line 606 and four new lines derived from the Shield of Hesiod after line 608. For the Odyasey there are (1) a 3rd cent, u.c. papyrus from Hibeh (No. 23), containing 28 lines of vx., of which 3 are new, and (2) two papers of the 2nd cent Rc. (Nos. 695-6 of the forthcoming Part iii, of the Tebrunis Papyri). One of these (Od. i.) has I new line out of 23, the other (Od. iv.-v.) 14 new lines out of 180, or 1 in 13. These are the only Ptolemaic papyri of the Odyssey; and while in the case of the Blad papyri with the same number of lines as the valgate make their appearance saie by side with the longer recensions in the 2nd cent a.c., e.g. P. Tebr. 4, P. Fay, 4, and three papyri (from t., vi., and xxii.) in P. Tebt. iik, the evidence for the normal text of the Odyssey in papyri does not yet go back further than the latter part of the 1st cent. a.c. (P. Oxy, 783 from xvii.)

The first discovery of these striking variations in the earliest paper of Homer bolt to the advance of far-reaching claims that the Homeric valgate was really the creation of Alexandrian scholars; but this view was strongly controverted in 1898 by Prof. Ludwich in Die Homerculgate als varelex-andrinisch erwiesen. The objects of that work were to maintain (1) that the early Homeric paper did not represent the normal pro-Alexandrian condition of the poems, (2) that to judge by a detailed investigation of the Homeric citations in writers of the 5th and 4th cent. 8.0. the texts used by them substantially agreed with the valgate, and (3) that variations in the so-called 'eccentric' texts represented by the paper had no critical value. Ludwich's views obtained the approval of Sir F. O Kenyon in 1904; but the Hibeli evidence was then for the most part not available, and the discussion of the question in 1906 in P. Hibeli, pp. 67-75, which appears several of Ludwich's contentions, has met with a good deal of support.

[&]quot; Nicola, Rev. Philol reili, 19th

^{*} P. Grent, H. 9-4.

^{*} tinchard, P. Hehlelburg, IV. 4.

^{19.} Hilbeh 19-22, from the same 2 papyri and another of R. ii.-iii. P. Rylands 49, a small fragman, of art with the beginnings of

fi lines, containing I new reading, perhaps belongs to the same find.

^{*} Cl. Murray, this of the Greek Epon, up. 302-12; Gerhard, P. Hendulberg, iv 1, pp. 1-7; Schubart, Highthamag, pp. 91-2.

Briefly the position may now be summed up as follows. In the face of the evidence that all the 3rd cent. BC. papyri and many of the 2nd cent, B.C. panyri of Homer exhibit striking divergencies from the vulgate especially in the direction of a longer text it must be admitted that, if the vulgate existed in the 3rd cent B.C., it was not yet the prevailing text in Egypt. What evidence is there that it did exist before u.c. 200? Ludwich relies on the citations of Homer in 5th and 4th cent. a.c. authors, because out of 480. verses in all cited by them, only 9-11 are not found in the vulgate, whereasin the papyri the corresponding figure would be about 60. But against this mist be set the fact that (I) the distribution of new lines in the paper; is very uneven, and they often have long passages without any additional lines. at all; (2) most of the quotations are quite short, and of the 25 authors whom Ludwich claims as supporting the vulgate only 7 are represented by more than 3 quotations covering 10 lines in all, while 3 of these 7 make citations containing extra lines. One of the most striking is Aeschines' version of Il. xxiii. 77-91 with 4 additional lines, and it is very significant that from a Heidelberg papyrus containing part of that passage, he is now known to have been quoting a text which agreed with the early Ptolemaic papyri. Since the text of the paper was good enough for Aeschines and apparently. the author of the Pseudo-Platonic Alcibiades ii. which has a quotation from R. viii. with 4 additional lines, to say nothing of Plutarch, who quotes Il. xxiii. 23 with an extra lime found in the text of P. Grenf 4, Ludwich's conclusion that the vulgate was already predominant in the 5th and 4th cent a.c. rests on a very slender foundation. With regard to the character of the new lines inserted, their literary value is certainly not high; for they mostly consist of tags from parallel passages. The only new reading of these papyri which is generally accepted is still ona & 'Ipes (as conjectured by Field) in Il xxiii 198 (P. Grent ii. 4), which is distinctly better than the vulgate reading area of Toir, because it preserves the digamma before Tor. But even Homer sometimes podded, and since the repetitions are already so numerous in his poems, a few more, though displeasing to our literary taste. may nevertheless be primitive. That the shaps des liked them is clear enough. It is, moreover, not the case that other literary paperi of the 3rd cent. a.c., found with the Homeric, present specially poor texts. On the contrary, taken as a whole, 3rd cent Tc literary texts, just like the nonliterary documents of that age, decidedly tend to be more correct than those written in later times, when the Greeks who settled in Egypt under the first Ptolemies became Egyptianised. House the earliest Homeric papyri, however disconcerting, are entitled to much more respect than they received from Lardwich.

But if the supremacy of the rulgate was not yet acknowledged in the 5rd cont. a.c., and if even its existence side by side with the longer text found in the papyri is not certainly attested before a.c. 200, why did the rulgate prevail in the course of the 2nd cent. a.c. I Fermerly I was disposed to admit that it existed before a.c. 200 as a text competing with the longer recensions; but now I am more sceptical as that point. In any

case the Alexandrian Museum must, I think, have been in some way responsible for the predominance of the vulgate; if not for its production. The main objection to that hypothesis is that, as far as our knowledge of the early Homeric critics, especially Zenodotus and Aristarchus, carries us their readings do not seem to have had much influence on the vulgate, which went on into mediaeval times practically undisturbed. To this, however, it may be replied that though we know, mainly from the scholia on the rulgate, that Zenodotus and Aristarchus tried, but in vain, to eliminate a number of lines from the received text of Homer, we do not unfortunately possess any commentary upon the longer reconsion; and if the Alexandrian Museum, as seems probable, influenced the texts which circulated in the 3rd cent B.C., the omission of a number of lines on the authority of the Museum may well have taken place without creating the necessity for the fact to be definitely recorded in the scattered fragments of suformation about early Homeria criticism which have survived. The hypothesis that the vulgate text of Homer, as we have it to-day, was really an edition, for the prevalence of which the Alexandrians were responsible, will at any rate account for the fact that it is ignored in the papyri of the 3rd cent. B.C., when the text was evidently

in a very unsettled condition.

Of Hesiod's extant works the four paper discussed by Sir F. G. Kenyon are all of the 4th or 5th century. Of these the Vienna paperus (Stud sur Palacogr. i. 11), containing 373 lines divided between the Theogenia, Works, and Shield, has a good text generally supporting the better class of MSS. but with very few new readings of importance. Two modern conjectures are confirmed. Hermann's obbe of for ou yap of in I. 15 of the Shield, and Nanck's Abeuer for Abelo m 1. 432. The Geneva fragment (Rev. Philot. xii. 113), containing 38 lines of the Works, is chiefly remarkable on account of traces of four additional lines which had apparently been ejected by ancient critics. The Paris fragment of Theog. 74-145 (Sitzungsber Berl. Akad 1887, 809) has some interesting readings, verifying two conjectures (Peppmuller's ce for re in 1.87 and Guiot's roly for old re in 1.93), and supporting several quotations against the MSS. F. Brit. Mus 159 (Rev. Philol. xvi. 181), which has 40 fines of the Theogenia, is unimportant. Of the six, mostly small, Resiodic fragments found since 1904, P. Oxy, 873 (parts of 20 lines of the Theog.; 3rd cent.), Berk klass. Texts, v. 1. p. 46 fearts of 12 lines of the Works; 5th or 6th cent.), P. Soc. It In (parts of 5 lines of the Shield: 4th or 5th cent.), and P. Oxy. 689 the last 15 lines of the Shield; 2nd cent) are also unimportant; but P. Oxy. 1090 (Works, 257-89) is calcable not only on account of its early data (late 1st cent.), but for 5 new and sound readings, of which 3 confirm small emendations (263 Buridge for leight - Ages, 264 bekenn the bekan, 268 (Hedge for Hedges). P. Ryl. 54 (Theog. 643-56; about A.D. 1) is even carlier, and in 1 656 supports Hermann's 5 ros in place of 5rs, but the 3 other new readings are of more doubtful value. The Hesiodic papyri as a whole carry back the ordinary tradition from the 12th or 13th cent, to the 4th, since which time it has clearly undergone no material change. So far as the 1st cent. evidence goes it exhibits a good many minor improvements upon the text of the vellum MSS, which seems to have been rather damaged in the course of transmission.

The 1st cent papyrus of the 'Λθηναίων Πολετεία contains three quotations from Solon (41 lines in all) which are known from Piutarch or Aristides. Here there are probably 7 cases in which new readings of the papyrus are right, the most striking being ἀλεήν ... ποιούμενος for ἀρχήν ... ενκεύμενος, and χρειούς φυγόντας instead of χρησμάν λέγοντας, for which Sitzler had

proposed δρησμον φυγόντας.

The lost poems of Pindar occur in several papyri of the Roman period, but apart from a small 3rd cent fragment of scholia on Py. 2 (Sitzungsher. Berl. About. 1018, 749), which is of no importance for the text, the only papyrus of the extant Epinician odes is the recently published P. Oxy, 1614 This contains parts of about 170 lines from Ol. i. ii., vi., and vii. (5th or 6th cent.). The MSS of Pindar, none of which is older than the 12th cent, are divided into two families: the text is generally thought to have been preserved with considerable care owing to the efforts of grammarians, and to have undergone comparatively little change since the 2nd cent, to which the extant scholia are referred, and before which as quotations show, it was far from fixed. This view is supported by the papyrus, which carries back the evidence for 6 or 7 centuries, and is very close to the text of the best MSS, agreeing somewhat oftener with the Vatican family than with the Ambrosian. An interpolation in Ol ii 29-30 is already present. New readings are scarce, and only one marpost he two exes in place of marpiscov twee exes in ii. 39-40-is of much value.

With regard to the dramatists, Aeschylus is still unrepresented in papyri, so far as his extant plays are concerned; while those of Sophoeles are represented only by a comple of 5th cent pieces of the Oedipus Tyronnus (375-85, 429-41 in P. Oxy. 22, and 56 lines from 688-1858 in P. Oxy. 1369), and three earlier scraps of other plays, one of Antigone 242-6 (P. Oxy. 875; 2nd cent.), one of Electric 993-1007 (P. Oxy. 693; 3rd cent.), and now one of Ajax 694 705, 753-64 (P. Oxy. 1615; 4th cent.). The last has in l. 699 an interesting new reading, Moora for Nioria, which seems to have been known to Suidas, and the Electra fragment in 1. 995 agrees with a late MS. in having rore Breyava, which is better than the ordinary reading war LuShelfaga. Much the longest of the Sophoclean papyri is P. Oxy, 1369. The novelties are inconsiderable consisting of inflategras for inflateges in L 825, and a doubtful confirmation of un emendation in 1, 1310, διαπωτάται in place of the corrupt biavérarai. But in four places the papyrus agrees with the later MSS against the Laurentianus, which is a fact of some importance for Sophiclean criticism. The view, which has been widely held and to a large extent influenced Jebb, that L was the ultimate source of the later MSS, has now received its coup de grace, and it is clear that the later MSS, preserve an independent tradition, which is sometimes better than that of L

Euripides was more widely read in Egypt than the other tragedians;

and there are now 21 fragments from 10 of his extant plays on paper or ostruca," though many of them are quite small. Of the Ptolemaic fragments the best is the earliest, P. Hibeh 24 from the Iph. in Touris. Two emendations are confirmed, Karreyovres (Reiske) for gal rugovres in 1, 252 and τοσος for These (Bothe) in 1.1618, and in II. 587 and 621 new readings of value occur. one of them, erelieved in place of blooved, nearly coinciding with a conjecture of Machly Deivouga. The extract from the Electric in P. Hibeh 7 has in I. 373 Suppliers instead of ScalaBus, one of the words being probably a gloss on the other, and in 1, 374 rdpa for y apa (y apa Wecklein). A 2nd cent ac fragment of the Medeo is full of blunders, and the text of P. Oxy. 1178 of the Orestes (1st cent. B.C.) is not good. Of the papyri of the Roman period the most valuable are two Oxyrhynchus fragments of the Phoenissae. At the end of 1, 171 the MSS, have ris moder coper, giving an iambus too much and editors had generally followed Valcknaer in omitting widen, while P. Oxy. 1177 omits copel, which is likely to be right. In 1 181 the MSS again have a foot too much which is usually remedied by the omission of \$\frac{1}{2}\pi\sigma d\, a correction confirmed by the papyrus, which in \(\) 226 verifies a dight emendation made by Byzantine scholars on matrical grounds. of for lo. Similar corrections of unmetrical passages are noticeable in P. Oxy. 224 L 1036, Impier Body for Incor Body (writers had proposed Theor Body Bode), I. 1040, ayar for layd (aya Musgrave), I. 1041, molecu for molecus (so Porson). With regard to the Byzantine period, the longest fragment of Euripides, containing 270 lines of the Hippolytus, exhibits no variants of much importance, but P. Oxy. 1370 of the Orestee, besides an interesting new reading συλλεκτρος for ομολεκτρος, in 1 508, confirms un amendation of Weil in 1. 1340, an & roughton for and o rg. The MSS of Europides are faw (for several of the plays only two) and not very good; so that it is a matter of some interest that the papyri support the received text as much as they do. But in the 3rd cent no the text seems to have been considerably less corrupt than in the mediaeval MSS,

Aristophanes is in much the same position as Sophocles. Apart from P. Oxy, 856, some late 3rd cent scholia on the Acharmians which are of no value for the text, the 12 papyri from 0 of his plays are all of the Byzantine period, chiefly 5th cent. The principal fragments are Berl. klass. Texte, v. 2.

cont.)(339-45, Mithail. P. Ruin. 7, 65 (about a.o. 1); 100 lines contiered over 445-1371, P. Oxy. 1370 (5)). cont.); 1062-90, Rev. Philal. xix. 105 (2ml cont.); 1315-60, P. Oxy. 1178 (carly let cont. a.c.); Phrenisais 107-18, [28-30, Class. Rev. xviii. 2 (2nd neur. a.c.); 171-84, 220-6, P. Oxy. 1177 (carly lat sent...); 107-1107, 1126-37, Mithail. P. Reimer v. 74 (3th cent...); 1017-43, 1064-71, P. Oxy. 224 (3ml.cont.); Rhems 48-96, Silmanuber, Berl. And. 1887, 813 (4th or 5th cent.); Pyrodia 470-0, Berl. Mans. Texts v. 2, p. 98 (101-ent.)

¹ Canalizating chorus of the Afersia, etc. P. Hilbelt 25 (Red and, n.c.); Kleeten 267-79, P. Hilbelt 7 (late 3c) cent. n.c.); Kleeten 267-79, P. Hilbelt 7 (late 3c) cent. n.c.); Header 160-3, 737-40, P. Oxy, 876 (5ch cent.); Hilbelt 278-280, P. Oxy, 877 (3cd cent.); Hippolytos, Berl Mine Texts v. 2, p. 88 (243-430, 462-515-66h; cent.), and p. 96 (616-24; 2cd cent. n.c.); Ighiy, in Funcis, P. Hilbelt 24 (85 lines with text over 174-659; before n.c. 246); Medars J. P. Weil (before n.c. 246); 57-83, P. Oxy, 1370 (5ch cent.); 507-17, 545-60, Reel, More Texts v. 2, p. 97 (5th cent.); 710-3, P. Oxy, 450 (3cd cent.); Occoles 53-61, 88-87, P. Oxy, 1616 (5ch

p. 99 (130 lines of the Acharmians, 66 of the Frogs, and 16 of the Birds), P. Oxy. 1374 (150 lines of the Wasps), and a (vellum) fragment with 56 lines of the Birds (Rev. Philot. vi. 179; 6th cent.) Quite a number of small corrections made by modern scholars, mainly on metrical grounds, are confirmed. Thus in Acharmians 912, where the MSS, have to dai savor mallion, the Berlin papyrns has Bentler's conjecture 7 60; in 1. 917 Elmsley's θρυπλλίδα (θρυμλλίδας MSS); and in 1. 928 Brunck's Φερόμενος (φορούμενος MSS. P. Oxy. 1374 confirms Brunck's amendation ypacomas for ypacomas in Wasps 576, and Bergh's leibyes for exilbine in 1, 790; while P. Oxy, 1373. which perhaps belongs to the same codes as 1374, supports Blavdes's suggestion exexed for exexed in Knights 1017. In Birds 1009 the Paris vellum fragment has δάκετα πάνθ' δυαπερ, as conjectured by Dissen, in place of Sakell Source; and in L 1078, where the MSS, have There design and Burgos restored the metre by inserting y after Corta, it has Cort anayayy. which is probably right; while in I. 1080 it omits a superflows mior added by the MSS after descript. But on the whole the papyri of Aristophanes are not very accumite, and are more remarkable for their agreements with the ordinary text where the correctness of it has been suspected than for new readings. The two chief MSS of Aristophanes, the Bavennas and Venetus. receive much more support than the others, and it is noteworthy that several of the papyri, especially P Oxy. 1374 and 1617, support the Venetus against the Ravennas, which has usually been regarded as superior.

The fragments of Theocritus from Egypt have until quite recently been very exiguous and unimportant, and P. Oxy. 1618 is the first serious contribution of that country for the text of the Idylls, which is often corrupt. the MSS, being late and poor (K and M, both of the 13th cent. are considered the two best). The papyrus, which contains 180 lines from Id. v., vii., and xv., is of the 5th cent, and does not present a very correct text. In v. it supports K against M, but in vii the opposite tendency is noticeable. In v. and vii new readings are rare, being confined to vii. 75 air théopre for αίτε φύσετε, vii. 112 "Εβρη πάρ ποταμο for Εβρου πάρ ποταμόν (both custor than the reading of the MSS.), and vii 92 in open for ar open. In xv., however, where the text is much more uncertain, there are several novelties of importance. Chief of these is [wepv] or in L 98, confirming Reiske's conjecture for the corrupt o'menyer or menygr of the MSS. Other valuable readings are by her alathens in L 72, which seems to account for the variants of the MSS, all corrupt at this point; o kip 'Axepowrs belonders instead of δ κήν Αχ. φιλιται in 1. 86, μη αποπλαγχθής for μή τι πλαρηθής in 1. 67,

217; Philips 1-56, P. Oxy. 1617.

^{*} The other paper are Counts 1-1), 38-48, P. Ony, 1371; 30 lines from 1.77-972, there kins. Texte v. 3, p. 108; 045-1014, op. (ii. p. 110; 1371-1428, Hermes axxv. 602; Frogs 44-50, 85-91, 840-902, P. Ony, 1372; Knights 57-40, 86-95, Melanger Nucls 212; Knights 5-15, 1015-7, 1057-62, Proc. 1326-35, P. Ony, 1873; Lysistenta 433-47, 469-84, Mel. Nic.

v xiii. 19-34, P. Oxy, 194 (2nd cent.); soraps of i., iv., v.; xiii., sv., xv., xzn. at Vienna and Paris (Wiener Scool. 1886, 220 + Mitcheil P. Rainer ii. 78; Sch oc 6th cent.); xi. 30-4, xiv. 50-63, Bert. Man. Fexts v. 1. p. 55 (7th cent.); scholia es v. 38-49, op. cel. p. 56 (bit or 2nd cent.).

ells for ell to h, 70; kakebras for kakebpes in 1.92. The papyrus is an interesting specimen of a text which stands apart from the existing families of MSS, and was at least as good as that of K. That in the later poems from xiv. onwards the text of Theocritus has suffered considerably since the 5th cent, is now probable, but the earlier poems to mot seem to have undergone much change between the 5th and 13th centuries. Fresh light on this subject will soon be thrown by Mr. J. do M. Johnson's publication of the long 5th or 6th cent, papyrus of the later poems discovered by him at Antinoopolis.

Of Apollomus Rhodius the eight papyri in are all small, but in several cases interesting as confirming emendations. Thus P. Oxy. 690 (iii. 727–45; 3rd cent.) has in 1. 745 καντίλοι εἰς Ἑλύκορ with Porson against καϋται εἰς Ἑλίκορ with Porson against καϋται εἰς Ἑλίκορ with Stephanus for κατὰ of the MSS. P. Oxy. 874 (iii. 263–72; 3rd cent.) confirms Brunck's smemilation -σιν έλεσθε in 1. 263 against -σι κέσθαι or κέσθε of the MSS. P. Amherst 16 verso (i. 775–94; 2ml or 3rd cent.) has three new readings, of which at least two, πόλοιο κατὰ στίβον for πόλησς ἀνὰ στίβον in 1. 781 and θύρας for πύλας in 1. 786, are improvements.

Of Aratus' Phasmomena, besides an unimportant 4th cent fragment of 741-53 804-16 in P. Brit. Mus. 273 (Class. Quart. 1907, I), there is a 1st cent paperus containing 160 lines between 642 and 934 (Berl. klass. Texte v. 1, p. 47). This is eight centuries older than the best MS, the Codex Marcianus, and has a number of new readings, but as a whole is distinctly inferior to that exceptionally good text. Three conjectures, however, are confirmed: Buttimum's πγουσα for Ιούσα in L. 736, Voss's δμπλήσσει for ξεμπλήσει in L. 750, and his φαίνωνται for φαίνονται in L. 870. Some scholia on Aratus (Berl. blass. Texte iv. p. 54) are valueless.

A 4th cent fragment containing Oppian's Halicutica v. 104-19, 142-57 (Berl. klass: Texts v. 1, p. 80), is unimportant, the novelties being only blunders; but a long 7th cent papyrus (np. nit p. 94), containing 277 lines of Books xiv.-xvi. of the Dionysiaca of Nounus (himself an Egyptian), is of much interest. The mediaeval tradition appears to rest on a single Florentine MS, written in 1280, which is full of corruptions, due in large measure to reminiscences of other passages. The papyrus has a number of new readings which are right (e.g. peiθροis for κύπελλοις in xiv. 437, and δλλος for καί τις in xv. 70), and confirms in a striking manner soveral conjectures which were not based on similarity of letters. Thus, in xiv. 393, where the MS has ἀκωκήν and Graefe conjectured κολώνην, it has ἀκωκήν corrected to κορώνην, the κολώνην, and then back to ἀκωκήν, a word which has come in from the end of l. 394. In xiv. 398 the papyrus establishes Graefe's φελοσταφύλφ against πολυσταφύλφ, and in xv. 87 his οἰνωθέντες for οἰνηθέντες, while in xv. 112 occurs a remarkable reading, έλαίνς in place

ii ii 101-10, P. Osy. 1170 [3rd (ent.)]; rii.
 143-61, 173-91, ffermer xxxv 605 (Trhennt. I);
 iii 1085-63, P. Oxy. 1247 (2nd cent.); iv 77-

^{90,} P. Oxy. 692 (2nd cour.), beadles the four which are referred to above.

of Aθήτης, as conjectured by Kochly. Γλαύκου for Βάκχου in xv. 165 is another striking confirmation of a conjecture, this time by Falkenburg; and in the same line Kichly's μαχηταίς for μαχητάς is established. Truces of a new line occur after xv. 228, where G. Hermann had supposed the loss of a verse. Altogether, the papyrus is very encouraging in its support of the freedom which has been employed in the emendation of Nonnus.

A papyros of the 11th, 16th, and 17th fables of Babrios, with a Latin translation, written about A.D. 300 (P. Amh. 26) is inferior to the unique 11th cent. Codex Athous of that author, from which it offers some minor variations; but the 2nd cent. P. Oxy. 1249, containing parts of Fab. 43, 110, 118, and 25 in that order, though not providing much in the way of new readings, is important because (1) it shows that Babrios, whom Crusius wished to bring down to the beginning of the 3rd cent, must have written within the 2nd cent, if not the 1st; (2) the alphabetical arrangement of the fables found in the Codex Athous and Amherst papyrus is ignored, and therefore is presumably not original; (3) while the prose epimythia are absent in Fab. 110 and 118, the metrical epimythian of Fab. 43 is present, so that the question of the genuineness of some of these epimythia requires to be reconsidered.

Of epigrams known from the Anthology, parts of 8 occur in papyr, 5 by Melesger in Berl. klass. Texts v. i., p. 75 + Sitzungsber. Berl. Akad. 1918, 750 (1st cent.), 1 by Leonidas of Tarentum and 1 by Antipater of Sidon in P. Oxy. 662 (about A.D. 1), and 1 by Alcasess of Messens in P. Tebt. 3 (early 1st cent. s.c.). They contain lardly any variants (copp for copais in Anth. Pal. v. 152. Sitzungsber. Le., confirming a conjecture of Pierson;

Spayeloras for examilas, P. Tebt. 3 in Anth. Pal. ix. 588).

A fragment containing Sibulline Oracles v. 498-505, 517-23 (P. Flor. 380; 4th cent.) is much more valuable, showing great superiority to the text of both families of the vellum MSS. Thus in 1.500 στεροπῆα is clearly right, as against the reading of the MSS. γενετῆρα, which has come in from 1.498; and in 1.502 κείσε δὲ τὰς explains the corrupt readings of the MSS. κείν αὐταν από καίς αὐταν. The irrelevant L.503 κείνπουν δώσει θεὸς ἀφθίτων βιστεύεω disappears, and in its place are two new verses, while the inversion of 1!.510 and 517 confirms a conjecture of Geffeken. In 1.519 ἀφείλετο is superior to ἀφήρπασε, the reading of the MSS, which is probably a gloss.

To come to prose authors, the longest and probably oldest papyrus of Herodotus is the recently published P. Oxy. 1619, which contains 220 lines scattered over iii. 26-72, written about A.D. 100. The mediacval MSS are divided into two main groups, the Florentine, beaded by a 10th cent. MS, and the Roman, which is all 14th cent. Stein adhered to the older group, regarding unsupported readings of the Roman family, which had been preferred by Cobet, as conjectures; but Hade puts the value of the two families nearly on an equality. The papyrus, in which the agreements with the older group are nearly twice as numerous as those with the younger, affords a substantial justification of Hade's reflectic method in reconstituting the text. The tendency to attest the antiquity of suspected interpolations,

which is so often exhibited by papyri, is illustrated in two cases; but in oh 32, where the repetition of the same word exchat had caused a difficulty. P. Oxy. 1619 amits the word in the third place in which it occurs in the MSS. while modern editors wished to quit it in the second; and in ch. 30 the redundancy of the expression on πολλώ μετέπειτα γρόνω ύστερον is ramedied by the omission of varepow, while another omission occurs in ch. 72. The other now readings are less unportant, partly concurning the dialect, in which respect the papyrus is not conspicuously more correct than the MSS. The next longest papyrus, P. Oxy. 1002 (late 2nd cent.), which contains about 140 lines from it. 154-175, has similar characteristics, standing midway between the two groups of MSS, confirming one commonly accepted emendation (ola for oi) in ch. 175, and presenting a few not very striking novelties in the body of the text. In the margin, however, of ch. 182 an alternative version of several lines is given (ούτως & τισιο άλλοις) from a reconsion which has left no trace in the MSS. The other 8 papyri 11 are all small, and belong to the 2nd or 3rd cent, except P. Manich (Arch. f. Papyrusf. L 471 : 1st or 2nd cent.), which has some minor improvements (éagle for éagle and Desdeptwreen for excuteparten). The main result of the discovery of papyri of Herodotus is to dispose of the view that the families of MSS, represent very ancient recensions, since the division of the MSS into two groups evidently took place not earlier than the 4th cent. By the 1st cent the text of Herodotus had reached a condition which, even as regards the dialect. is only slightly better than that recoverable from a combination of the two families.

Papyri have made much more difference to the textual criticism of Thucydides than to that of Herodotus. Up to 1915 there were 18 published inagments, 7 being quite small; a detailed discussion of their relation to the MSS is given in P. Oxy, xi. pp. 156-64, and 4 more have been recently published. The mediaceval MSS form two main groups headed respectively by C (10th cent.) and B (11th cent.), which after vi. 92 brunches off by itself into a number of peculiar readings, so that it has generally been supposed to represent here a different edition. The earliest papyri, which are of the 1st cent., P. Oxy, 16 ± 696, 225, and 878, tend to support the C group; but

6; 76, P. Oxy. 10; 1, 105-6, P. Oxy. 18 and 1244; i. 115-6, P. Munich; ii. 165-8, 107-8; P. Byl. 55; v. 78-82, P. Brit. Min. 1109 (Viljoen, Revolute frequencia is paparete secretic p. 441; v. 104-5, P. Oxy. 695; vn. 166-7, P. Oxy. 1375, Cr. P. Amberst 12 [3rd cept.], from Arisdarchus conspondary on t.

^{16 1, 11-4,} P. Oxy. 1620 (2nd or early 3rd nonl.); ii 139-47, P. Oxy. 1245 (4th early), communitary on ii 1-45, P. Oxy. 852 (late 2nd earl.); iii 2-15, P. Goneca 257 (3rd nonl.); ii. 7-8, P. Oxy. 17 (2nd or 3rd cent.); ii. 11, 35, P. Oxy. 1621 (4th cent.); ii. 22-5, P. Oxy. 878 (late 1st cent.); ii. 59-60, P. Oxy. 878 (late 1st cent.); ii. 59-60, P. Oxy. 12

⁽⁴th or 5th cant.); ii. 65.7; P. Oxy. 1622 (anrly 2nd cant.); ii. 73-4; P. Oxy. 451 (3rd cant.); ii. 90-1; P. Oxy. 223 (1st cant.); iii. 7-9; P. Oxy. 1625 (5th or 6th cant.); iii. 53-9; P. Oxy. 1625 (5th or 6th cant.); iii. 53-9; P. Oxy. 1625 (5th cant.); iv. 28-4; P. Oxy. 10+696 (1st cant.); iv. 87; P. Oxy. 462 (late 2nd or 3rd cant.); iv. 87; P. Oxy. 463 (late 2nd cant.); v. 86-3; P. Oxy. 1180 (3rd cant.); vi 32; P. Oxy. 453 (asrly 2nd cant.); vii 35; P. Oxy. 1246 (sarly 2nd cant.); vii 35, P. Oxy. 1246 (sarly 2nd cant.); vii 35, P. Oxy. 1246; sarly 2nd cant.); vii 34-68; 72-3; 78-82; P. Oxy. 1376 (late 2nd or 3rd cant.); viii. 8-11; P. Oxy. 1247 (2nd cant.); viii. 8-2; Wieser Scaf. vii 116 (7th cant.)

the chief 2nd cent papyri of the earlier books, P. Oxy, 853, 1247, and 1620, rather support the B group. P. Oxy. 1376 (vii. 54-82; about A.D. 200). which is much the longest papyrus of Thucydides, stands midway between B and C confirming many of the peculiar readings of B. The effect of the papyri as a whole is distinctly to enhance the value of the B group, which Hude was disposed to place much below the other. Occasional agreements with the later MSS, which are usually ignored, are also noticeable. In the matter of novelties two papyrs stand out from the rest. P. Ozy, 16 4 696 has about 20 substantial variants, nearly all of which have been adopted as improvements by both Hade and Stuart Jones. The most striking occurs in iv. 37, where the reading of the MSS, you're 36 6 Kalsov cal 6 Aquealliens ότι εί και οποσούν μάλλον ένδωσουσι διαφθαρησομένους αίτοις . . . έναυσαν The payer provides one of the worst amenduths in Thucydides Here the papyrus omits 574, as had been proposed by several editors. P. Oxy. 1376 has 20 new readings in vii, of which at least 8 are right. Four of these confirm conjectures : orparelas for orpareas (Aountins Portus), by for hon (Gertz), an ourission of as (Hode) and the busission of av in owner to ano-Audhurm (Herwerden), and an awkwardly constructed sentence in ch. 68 is much improved by the substitution of cieasies laws for bieasiewes. Similarly in the other paperi of Thucydides P Oxy, 225, he substituting ancrovneral for durvoupevos in u. 90, gets rid of an unsatisfactory construction eard diverse; and P. Oxy. 1247 in vin 10 establishes Westermann's insertion of & before enva. P. Oxv. 853, a commentary on it, has 12 new readings in quotations from the first 40 chapters, one of them confirming Hude's conjecture opice for quie in 11. 9, as also does P. Oxy. 1621, which in 11. 6 omits the unsatisfactory overs, as proposed by Madvig. P. Oxy. 1620 is remarkable. for a number of alternative readings, which are mostly new and in several cases improvements. It is now that the tradition of the mediaeval MSS of Thucydides is decidedly imperfect, and not a few roughnesses of his style are really due to scribes' errors, but on the other hand no extensive alteration of the text has taken place since the 1st cent. Rutherford's theory of large adscripts in iv. due to mediaeval scribes was definitely disproved by P. Oxy. 16 + 690L

The historian, however, whose text has in some respects been most affected by papyri is Xenophon. Of that author there are now 15 published papyri, of which one of the most important is P. Oxy. 463 (about a.b. 200), containing Anabasis vi. 6. The mediaeval MSS of this work are divided into two families, and one of them, headed by a 14th cent. MS called C, was formerly held to be so much superior to the deteriores, headed by a 15th cent. MS called D, that the latter were almost ignored. But the papyrus, which agrees six times with either group, stands midway between the two, and the same phonomenon occurs in connexion with the Cyropacatia, where the condition of the MSS, is similar. Here a 2nd cent. Vienna papyrus (Mittheil, P. Rainer vi. 1) of v. 2-3 agrees 27 times with CH, 30 times with D, and P. Oxy. 697 of i. 6, ii. 1 (2nd cent.) 22 times with CH, 36 with DF, while P. Oxy. 1018 of i. 6 (3rd cent.) and P. Hawara of iv. 5 (Arch.)

f. Papyrusf. v. 378; 2nd cent.) agree still more markedly with DF. It is now evident that in both the Anabasis and Cyropserlin the 'deteriores' are as close to the 2nd cent, texts as is the other family, and the extent of the change effected by substituting a mixed text for one based on a single family can be gauged by comparing the recent edition of Marchant, which takes the papyri into account, with those of his prediccessors. With regard to new eadings, neither P. Oxy. 463 nor another much smaller fragment of the Anabasis, P. Oxy. 1181 (vii. 1; 3rd cont.), presents any of interest; and in the Cyropaedia the Vienna papyrus is the only one which adds much to the large mass of known variants in the text of that work, while none of the 18 new readings is of great importance. Another long Vienna papyrus (Mittheil, P. Rainer vi. 17) from Hellenien i. 2-5 (3rd cent.), has about 32 pseuliar variants of which Marchant adopts 19; but the improvements are not very striking. The papyrus tends to support B (14th cent.), which is considered to be the lest MS P. Oxy. 227 of Occommicus 8-9 (1st cent.) stands apart from the families of the MSS, which are 12 centuries jumper, and has not a very accurate sext; but 7 of its new readings are adopted by Marchaut, including verifications in 9, 2 of an emendation by Cobet (the insertion of ye between the and sixias), and of one by Schneider (the insertion of the before tractes. A Munich fragment of Hoper i 5-6 (Arch. f. Papyrusf. i 473; 2nd cent) by reading olxeroffar instead of olegoffar removes a longstanding difficulty; and similarly the small P. Giessen 1 (3rd cent.) in Symposium 8, by substituting vaparonom for vapa vi varjom, gets rid of a corruption which had buffled all editors. The commining 5 papers of Xenophon is are unimportant.

Plato was studied in Egypt more than any other philosopher, and there are now 19 published fragments from 12 of his dialogues, besides 2 from commentaries on them. The most remarkable are the 3rd cent. s.c. fragments. of Phaedo 67-84 " and Lackes 189-92 15 which, like the contemporary Homoric papyri, vary considerably from the ardinary text. Thus in Phaedo 680 wallow eveca takes the place of and views, and in 680 da airing the awopaποδώδη is found instead of περί ταύτην την εὐήθη. In 3 cases the readings of Iamblichus or Stabaeus are supported against the MSS of Plato. These early Ptolemaic variants have not, as a rule, been regarded with favour, and Burnet accepts in the Phaselo only 8 out of about 70 readings peculiar to the Petrio papyrus, and in the Luches 7 out of about 42. The other Platonic papyri are all 1st-3rd cent, the most important being P. Oxy, 843, which contains the second half of the Symposium, written about A.D. 200. The three chief MSS, of the earlier tetralogies are B (A.D. 895), T (12th cent.), and W (a Vienna MS., later). The papyrus is, as usual, celectic in its support of the chief MSS and Stobacus, and there are several agreements

Hell. iii. 1, P. (kry. 28 (2nd cont.); vi.
 P. Oxy. 226 (1st or 2nd cent.); Opens, a 6 I. P. Oxy. 608 (3rd cont.); Name. 1, 3,
 P. Grent, K. 13 (3rd or 4th cont.); iii 1, P.

See. Tral, 121 (for or 2nd course

¹⁴ P. Patrin L. S.

¹⁴ P. Pitrie II. 50 + Hermithina x. 407.

with the late MSS. New readings are fairly frequent, but most of them are not very convincing. The most valuable contributions are en for in in 2017, as in corrections of two late MSS.; the emission of wal in 202a, as proposed by Stallbaum; as ely in 204b for the meaningless as; the omission of to before eakly in 206c, as proposed by Badham; nevere with Stephanus in 2085 for pereyear; receiv with Hug in 2000 for every; and the addition of xal so before Encodas in 210a. There are also two long papers of the Platedrus: P. Oxy. 1017 (238-51; about a.D. 200) gives an exceptionally good text with a number of alternative readings from a different recension, one of which, rois for row in 230a, confirms a conjecture of Heindorf, some reappear in the MSS, others are new. New readings without variants are also frequent, and several of these are likely to be correct—one establishing a conjecture of Cobst, leedies for bedies or bebies on bebies in 251a. The papyrns often preserves the superior reading where either B or T or both (Wis not available for this dialogue) go astray. P. Oxy. 1016 (227-30; 3rd cent.) is less striking, but has several good readings which have litherto rested on inferior evidence or on conjecture, such as many re with Schanz for many reg in 228b. συ δέ νε for οὐ δέ νε or συ ού in 230c. Both papyri stand midway between B and T. P. Oxy. 1624 (3rd cent.) of Protagoras 337-57, like P. Oxy. 1017, has been extensively revised, the corrector showing a marked tendency towards omissions. A conjecture of Heindorf in 356c, the insertion of at before is at, is confirmed by the first hand but rejected by the corrector, who in 357n has a reading that had suggested itself to some early Remaissance scholars, πορρωτέρου και δηγυτέρου for παρρωτέρω και δηγυτέρω. Of the remaining Platonic papyri, P. Oxy. 881 (2nd or 3rd cent.) of Enthystemus 301-2 and Lysis 208 has a number of small variants, as have P. Oxy. 228 of Laches 197-8 (2nd cent.; 4 of its readings are accepted by Burnet, I agreeing with Stobaeus, I with a late MS.), and 2 papyri of the Gorgios, Mittheil. P. Rainer ii. 76 (504-5; 3rd cent.) and P. Oxy. 454 + P. Soc. 4t. 110 (507-8 and 522-6; 2nd cent). More valuable than these are the lemmata in the Thiostelus commentary (Berl klass Texts ii ; 2nd cent.); but out of 18 new readings the editors only recommend 5 as superior to the MSS. one of these, the omission of lovin before form yap in 152b, having been anticipated by Ast. The support given by this papyrus to W against BT is very noticeable. The other Platonic papyri id are unimportant. The main results of papyri in regard to the text of that author are to show (1) that W is practically as good a MS, as B or T; (2) the later MSS have been too much neglected, particularly Vat. 1029; (3) the text of Plato was in a decidedly unsettled condition in the 3rd cent. Re. So far as the early Ptolemaic papyri go, they vary extensively from the later text, and even in

^{**} Luckes 181-2. P. Brit. Mas. 187 verso (2nd cent.); Legre in. 882-3, P. Oxy. 23 (before 195); extracts from it. 832-3, Eccl. Mass. Texpe it. p. 55 (1st cent. n.c.); Phoedo 106, P. Oxy. 1248 (2nd cent.); Pointens 210-2, P. Oxy. 1248 (2nd cent.); Republic in. 408.

P. Oxy. 455 (3nd cent.); iv. 422, P. Oxy. 456 (2nd or 3nd cent.); a. 407-8, P. Oxy. 28 (3nd cent.); De virmir 376, Arrh. f. Papprog. v. 579 (2nd cent.), Cf. the extract from Phosodous 205 in Red. Bass. Taxis ii. p. 82 (2nd cent.).

the 2nd and 3rd cent there is considerable evidence for the continued existence of a different tradition side by side with the ordinary text

The extant works of Aristotle are represented only by a fragment of Post Anil. i. 71-2 (Philologus xliv. 21; 6th or 7th cent.), containing nothing new, and one of the Protrepticus, most of which corresponds to an extract of this lest work preserved in Stobacus (P. Oxy. 666; 2nd cent.), and by a small piece of a commentary on Topics ii. 2 (P. Fay. 3, early 2nd cent.). The Protrepticus fragment sometimes supports one, sometimes another of the three MSS, of Stobacus, and occasionally corrects them all; the citations from Aristotle in the commentary on the Topics offer no variations of interest.

Of a work which in ancient times was attributed to Aristotle, but is now generally assigned to Anaximenes, the 'Pητομική πρός 'Αλέξανδρον, there is an important 3rd cent. B.C. papyrus, P. Hibeh 26, containing pp. 15-31. The text of this, though not free from scribe's errors, is very greatly unperior to that of the MSS, which are of the 15th and 16th cent, and the improvements, which sometimes extend to the addition of a whole clause, are numerous. At least 7 conjectures are confirmed, including 2 claborate emondations of Spengel, the alteration of Ivasi (or εἰδῶσι) το κατηγορούμενου to τιμώσι, απίττιας το κατηγ., and of πως to a phrase like δεί μεθιστάναι (μεταστατέων the papyrus). Other emendations of Spengel which are established are ή ἐπ΄ ἀνθρώσων for ἡ ἀνθ., τοῦτω τὸν τρώπον for τὸν τρ. τοῦτ., διέλθωμέν for διέλωμεν, and ο νομος for νόμος, besides τριττῶς for περιττῶς (Bekker). As often, the papyrus tends to support the so-called 'deteriores' almost as much us the batter codices.

A small Sid cent, fragment of a compendium of Theophrustus' Characters 25-0 (P. Oxy, 699) does not throw any light on the text of that author, beyond showing the antiquity of such compendia as that in the Codex Monacensis.

There are 4 long papyrs of Isocrates, besides 12 shorter ones, the 4 being (1) a 2nd cent. Berlin papyrus of Demonicus 18-52, collated by Drerup in his resent edition; (2) a Marseilles papyrus of Nicosles 1-30 (Mslanges Grana 481; 3rd or 4th cent.); (3) P. Brit Mus 132 of the De pace (Journ. of Phill xxx. 1; 1st cent.); (4) P. Oxy. 844 of Panegyricus 19-116 (2nd cent.). Of the rest only P. Oxy. 1095 of Demonicus 40-6 (4th cent.) and P. Oxy. 1183 of Traperitieus 44-8 (1st cent.) need concern us. The 10th century Codex Urbinas, which is held to be greatly superior to the other MSS, sometimes obtains more support than the rest, especially in the De pace, where P. Brit Mus 132 agrees 123 times with it and 54 times with the others. But Isocratean papyri as a whole are conspicuous for their

The others are Demonical extracts from 39, 41, 50-4. P. Barino softated by Breemp (2nd or 3rd lend); 45, Herres extr. 007 (3rd pent.); 30-3, P. Amil. 25 (1st or 2nd sum.); Nicodes 2-4, Mattird, P. Bronce ex. [36 (6th cent.); 9-41, P. Chienga Lit. 1 (3rd cent.);

^{47-51.} P. Sec. Ital. 38 (5th cent.): Pourogreene [89, and Di Pare 1-3, P. Oxy.
1000 (4th cent.): Philippea 114-7, Michell.
P. Raiser il. 74 (14) or 2nd cent.): Sophia
15-8, P. Oxy. 704 (3cd cent.): Anid—6 83,
87, P. Oxy. 27 (16) or 2nd cent.).

coincidences with the so-called inferior MSS, especially the papyrus of the Nicooles, which agrees with them 19 times against the Urbinus and not once with the Urbinas against them, and that of the Trapezitious, which 12 times supports an 11th cent MS called A against the Urbinas and only once the Urbinas against A. Several of the papyri, notably those of the Demonious and Panegyrious, have a number of variations from or additions to the ordinary text; but few of these have been regarded as improvements, and the latest editor of Isocrates, Drorup, still adheres to the supposed almost complete infallibility of the Urbinas. It is, however, increasingly difficult to explain the superiority of that MS, on the hypothesis that it really gives the oldest and purest text. The other MSS, present a text for the antiquity of which there is just as much evidence, and the quotations of Isocrates in Dionysius of Halicarnassus indicate that in the 1st cent. p.c. the text was not settled. The Urbims is more likely to owe its excellence to the editorship of some grammarian than to the sole possession of an uncorrupted tradition. The main principle on which Drerup is constructing his text seems to be

rather antiquated.

Demosthenes, as might be expected, was the most widely read in Egypt of all the prose authors. There are now 35 fragments, dating from the Ist cent. n.c. onwards, representing 14 of his speeches with the Hoselara δημηγορικά and Letters, besides 5 fragments of commentaries or lexicons; but only 8 of them are of much length. The MSS of Domosthenes are numerous, about 200 being known, and 7 or 8 of these go back to the 10th or 11th cent, the Paris codex S being pre-emment. They are classified by Butcher into 4 main families, which are all considered to have been ultimately derived from one archetype, chiefly because the 32nd oration (Zenothemis) breaks off at the same point in all of them. The date of this supposed archetype is uncertain: Blass assigned it to the 5th or 6th cent. S and its descendant or relative L are distinguished by presenting a shorter text, and it has been maintained, especially with regard to the Third Philippic and Midlius, that there were two ancient editions, one longer than the other; while even in S considerable interpolations have been suspected. Blass going much further than Butcher in his rejections. Of the De corona there are 3 important papyri, besides 7 of no special value.38 The earliest, P. Oxy. 1377 of the 1st cent B.C., contains only 27 lines from §§ 167-9, but is noticeable for exceeding S in its omissions, though these are not always justifiable, and for an agreement with Tiberius against the MSS. (rd dvayxarorara; SL'om. ra aira ta aray, the rest). P. Oxy. 230 (40-7; 2nd cent.) is a longer fragment and supports S, especially in regard to its omissions, though not going so far as Blass. P. Ryl. 58 (267-94; 5th cent.) is longer still but is rather late and presents a mixed text not consistently agreeing with S or any other MS. It too is prone to omissions, but most of these can hardly

 ^{9 1.} P. Rel. D6 (3rd cont.); 7-8, P. Oxy.
 Oxy. 231 (1st of 2nd cent.); 230-1, P. Oxy.
 401 (3rd cent.); 23-8, P. Oxy. 462 (3rd cent.); 227-9, P. cent.);
 Oxy. 231 (1st of 2nd cent.); 230-1, P. Oxy. 23 (3rd cent.);

be defended. Of the De fals, leg, there are 5 fragments, Journ Philol. rxii. 247 (\$\$ 11-32; 2nd cent) by no means always supports S, and has several differences from all the MSS in the order of words; but apart from these new readings are scarce (13 in number), and Butcher adopts only one, τοῦτο for ταῦτα în § 21 P. Oxy. 1182 (53-7; 2ml cent.) also presents a mixed text; the only novelties are 2 additions of an explanatory character by a corrector, which seem to be of the same class as the supposed interpolations in the MSS outside the SL family. P. Oxy. 1094 (274-5, 279-80; 5th cent.) is again eclectic, and of inferior quality; one emendation of Dobres in 280-(the omission of val) is confirmed, but apparently not another which had been neually accepted (28 exerces for exerces). The remaining two papyri of this crution 19 are unimportant. Except the Timogrates with 3 fragments, none of the other speeches is represented by more than 2.39 The most interesting are P. Oxy. 1093 (2nd cent.), a long papyrus of Bocot, 7-23, which agrees with S not much more than with some of the other MSS and has no striking novelties, and P. Oxy. 459 (3rd cant.) of Aristoce, 110-9. which in several places has additional words, perhaps interpolations. A solitary scrap of the Third Philippio 38 40, 43 (P. Fay 8, 2nd cent.) agrees twice with S in regard to omissions, the missing words (στογήνωμη τοίς exergonizore) being in one place supplied by a corrector with the addition of ir repross. The lemmata in the Berlin commentary of Didynnas upon Phil. iv., De spiel. Phil., and Hepl courrifees (2nd cont.) have 9 new readings, of which one (mepicayaleade for mepicayaleadar) had been auticipatest by Blass, and two others are probably right, and 7 agreements with S. compared with 6 with the other MSS. More remarkable than these is P. Oxy. 26 (2nd cent.) of Hopolipia Superyopesia 26-9, which has a distinctly good text, introducing several improvements in 26 BeBookenieleun für ner Bankonerwe, Komer (as conjectured by Wolf) for course; in 29 raire by τούτα for τούτο δή τούτο (τούτο δή ταύτο Reiske), έτι for ότιούν. But the most valuable papyrus of Demosthenes; so far as novelties are concerned, is P. Beit Mins. 133 (1st cent. B.O.) of Third Epistle \$\$ 1-38. This has many improvements, and verifies no less than 10 conjectures: 9 soor for το όσον, 27 τω for την, and 31 Ερθυδικου for Ευδικον or Ευδημον (Blass); 22 άγνώσι for άγνώμοσι (Dobreo), 22 άδικοῦσθε for ήδικεῖσθε οτ άδικείσθαι.

18 § 10, P. Groof, B. 9 (1ss or 2nd cont.); 293-1, P. Tele, 267 (2nd sont.) (2nd cont.); Mid. 41-2, Proc. S. Sid-Arch. vs. 86 4th or 5th cont.; 131-4, P. Grey. 1378 (3nd cont.); Pharm 3-7, P. Grenf. H. 10 (2nd cont.); Tomor. 56-5, P. Ory. 232 (3nd cont.); R3-5, P. Ory. 701. (2nd or 3rd cont.). 148-6, 180, P. Ory. 233 (3nd cont.). G. the communitaries on Mid., Kenyon 'Absorbed Habred, M. J. App. L. (late let cont.), and Andred. Herosco. 10, 274 (by cont.), and Pabrony. iv. 11 (4th or 5th cont.), and Aristory. Best Since. Texts 1, p. 78 (4th cont.).

^{**} Besides the 6 described the coars Objects. 10, 13, Come five vi 430 ((alor Raid cent.)) Ph2 1, 26-0, P. Conners 3 (6th cent.); N. 1, 5, P. Anth. 24 (4th cent.); De Proc 2-9, P. Sectial, 129 (4th cent.); 21, 23, P. Oay. 460 (2nd or 3cd cont.); Aristor, 149-30, P. Oay. 883 (2nd cont.); Aristor, 149-30, P. Oay. 882 (2nd cont.); Lept. 78, Closs. Quart. 1907, 263 (Jate.); 84-90, Wilelian, Fafela cur off, greech, Padroge, 1

and 25 obbies for obbeix ar (Sauppe). 28 of the for de (Reiske): 30 marpines for marphious (Wolf); yeveralar for verificeadar (Fuhr); 38 an insertion of the (Bekker). The text of the Epistles has evidently suffered much more in transmission than that of the speeches. With regard to the latter paper, while confirming on the whole the superiority of S, indicate that the other MSS, especially F (the Marcianus; 10th cent.), cannot safely be neglected; and that whereas the shorter readings tend to receive more support from papers than the longer, Blass went too far in rejecting supposed interpolations, as he certainly applied too rigidly the rules of euphony to Demosthenes and other orators.

The text of Aeschines is in a bad condition, all three families of MSS. being of poor quality. Only one MS, is earlier than the 13th cent, and that by a curious phenomenou belongs to apparently the worst family of the three. Hence of the 8 fragments of Acsehmes from Egypt, all except two 11 are decidedly valuable. The longest is P Oxy, 1625 (2nd cont.) of In Clesiphontem 14-27, which presents a number of new and better readings. Thus in § 20, where two of the three families have an omission and the third is corrupt, having και των έκει σκυθρωπών και των μεγίστων κύριου άγειν. it vorifies Lambinus' emandation rav έκει σκυθρωπον and Wolf's ayer, but not the more elaborate changes proposed by later editors. A gloss which had found its way into the MSS in § 15 can now be detected, and another which is found in two of the three families is absent from the papyrus Hamaker's conjecture ispa for year in § 17 is confirmed, and Cobet's objection of doyal, and higher as he proposed. A passage in § 10, in which variations between present and past participles had caused a difficulty, is set right, and there are several alterations in the order of words. P. Oxy. 703, a small 3rd cent, fragment of \$5.94 and 96 of the same speech, has 3 new readings, which are all probably right, one of them confirming a conjecture of Kaibel, Corror for apartor in § 94; while in § 167 P. Oxy. 457 (2nd cent.) similarly has several improvements (συστήσασθαι for συστήσαι; προσκαθ[ιζ]ήσ[ει. which Labeck and others had proposed, in place of the corrupt wpoorafilers, προσκαθέστήση, etc. of the MSS.; and dyas προσποιήσει for προσποίηση). The longer but much later vellum fragments of \$\$ 178-86 (Hartel, Vortrag aber die Griech Pap Erz Rain. 45 sqq , 5th cent.) also provide some minor improvements. In this speech the temlency of papyri is to support the group of MSS, called by Blass A more than B and C, which had been generally consulered interior to A. In the Contra Timarchum, where A.iswanting a 2nd cent Geneva papyrus of §§ 171-81 (Nicole, Textes graces ined. I) and P. Halle 6 (2nd cent.) of 177-8, 191-2, 194-5 agree with B eather aftener than with C, but on the whole, like the other papyri of Acachines, present a mixed text, ignoring the lines of subdivision in the MSS. Both are romarkable for their numerous divergences from the ordinary text. In the Geneva fragment the principal improvements are

^{*} Do falso lep. \$231-30; P. Oxy; 458 (Sed.cont.) : 74-5, P. Oxy, 440 (3rd cont.).

la χυρίζεσθαι (with Wolf) for διασχυρίζεσθαι, έξαιρήσεται (with Blass) for εξαιτήσεται, the insertion of αὐτὸν between ὑπολάβετε and ὁρῶν, έχετε for εξετε, τῶν ἀδικημώτων ὁργίζεσθαι for γίγνεσθαι τῶν άδικ, προαισθώνεσθαι καὶ ὀργίζεσθαι, τοὺς μέν νόμονς (with Coher) for τοὺς νόμονς μέν. Both papyri have τὸ αἴτιον for τὰς τούτων αἴτίας, τοὺς μέν νόμονς (again with Coher) for τοὺς νόμονς μέν, ἐπὶ πᾶσι δικαίοις (with Hillebrand) for ἐπὶ πᾶσι τοῦς ἄ, οὐτε κέρδονς ἀδίκου ἔνεκα for κέρδονς ἄνεκα ἀῆίκου (or άδικοι) and P. Halle ὁ also has probably κατηγόμον, as conjectured by Blass, for κατηγορούντων, and ὁ γὰρ νόμος οὐ for οὐδὸ γαρ ὁ νόμος, which is inferior. The text of Aeschines has evidently undergone considerable deterioration in the process of transmission since the 3rd cent.

Of the prese writers of the Alexandrian age, Polybous is supresented by late 2nd cent. fragments of xi. 13. 8–16. 7 (Arch. f. Pappyrus f. i. 388 ± P. Ryl. 60). This papyrus is notably superior to the MSS, and confirms as many as 13 concadations. 4 by Casanbon (15. 7 θ/ρος for τέλος, 16.3 insertion of γαρ; 16. 5–6 insertion of τό before προεφημένου, and τό δυσχούστου for την δυσχ.), 2 by Scaligar (14. 2 προσθείναι for προθείναι, and 16. 6 δια-βαλεί for διαβάλλει), 2 by Schweighauser (16. 2 om. τοὺς before ὑπερδεξίους, 16. 6 and 7 ἐν πορεία for ἐμπορεία), 1 by Ursinns (15. 5 θωρακίτας for ὑρακίτας), 1 by Arcesius (16. 1 ἐπάγειν for ὑπάγειν), 1 by Gronovius (14. 2 the insertion of παρά την τῶν ἡγουμένων before ἐμπειρίαν), and 1 by Roiske

(xaraβáses for xaraβairorres: the papyrus adds προσβαίνοντες).

The prose-writers of the Roman age are represented in papers chiefly by the writers of Romanices. There are two papyri of Chariton's Chaerens and Callirhoe (ii, 3-4 in P. Oxy, 1019, and iv, 2-3 in P. Fay, 1; both late 2nd cent.), and a vollum palimpsest (viii. 5-7, Archiv. f. Papyrusf. i. 227; 7th cent. 7). The received text depends upon a single 13th cent. Florentine MS, and both papyri are on the whole very close to it, though providing a number of various which are generally superior. Thus in it is bodon of ποθεν αλοθομένη D'Orville's conjecture ποδών for ποθεν is confirmed. The palimpsest varies more extensively than the papyri from the Florentinus, and seems to represent a different recension; which is sometimes longer, sometimes shorter. Wilchen, editing it before the publication of the papers. regarded both is and the MS as shortened recensions of the original Chariton; but the papyri, which are much closer to the author's lifetime, rather support the view that the Florentinus, though faulty, has not undergone much editing. That the recension found in the palimpsest is as old as the other is not proved.

Of Achilles Taties' Clitophon and Lencrope 2-0 there is an early 4th cent paperus P Oxy. 1250, which resembles the Chariton paperu in its characteristics exhibiting many small discrepancies with the mediaeval MSS, and in most cases being manifestly superior. Two conjectures, Jacobs's τότε τὸν γὰρ Διάπωσον των τότε γὰρ τον Δ and Boden's προπέθηκεν for προσέθηκεν, are confirmed, and three unsolved difficulties are set straight by the readings εκλευκον των εκ Λακαίνης, μαζεί for διμέρο, and the insertion of πλησίον ατίτε τῶν βοτρώων; but the drastic methods of Hereber in dealing

with the text meet with no support. A noval order of the chapters is striking, the 2 and 3 1-2 being inserted between the 8 and 9, while, since the rest of the 3 would not fit the end of the 1, there must have been some modification at that point also. This divergence in regard to order is to be explained by supposing either that there were two reductions of this romance, or that a leaf of the archetype of the MSS, was displaced and the dislocation concealed by subsequent patching. Incidentally the papers of Chariton and Achilles Tatius have revolutionised current views about the date of the composition of Romances. Formerly the writers of these were assigned to the 5th or 6th cent.; but the evidence from the date of the actual papers proves that Chariton wrote before a.D. 150 and Achilles Tatius before about 300.

I pass briefly ever the writers on mathematics and medicine. Of the two short papyri of Euclid, P. Fay, 9 (2nd cent.) is remarkable for its variations from the ordinary text of i 39 and 41, and P. Oxy. 29 (about a.p. 300) also has some peculiarities of arrangement in ii. 5. P. Oxy. 1184 (early 1st cent.) and to a less extent two 2nd or 3rd cent Berlin papyri (Berl klass, Texte. iii) illustrate the instability of tradition concerning the pseudo-Hippocrutean Letters, which appear in a longer or shorter form and in varying order. A small 2nd cent papyrus of the pseudo-Hippocratean treatise Hept brains offew, P. Ryl. 56, supports none of the three chief MSS at all consistently, and occasionally differs from them all. Small 2nd or 3cd cent. pieces of Hippocrates' Aphorisms i. 1 (Studi d. scuola pap. di Milano t. 3) and Epidem. iii. 1 (P. Soc. Ital, 116) are unimportant; but a 4th cent fragment of Sorams' Gynaevia ii 2-3 (P. Soc. Ital. 117) has some norable variants from the unique 15th cent. Paris MS, besides supplying part of one of the two lacunas in ch. 3. Wellmann's conjecture 'Admicor for Admian, Roso's insertion of the meet butween in the a kal y and the alpeasens, and Ermerine's correction και 'Αριστοτέλην και Ζήνωνα τον Επικούμην for και Zapara cal 'Apartership tor 'E. are confirmed. A small fragment of Diesecrides, Hept Day larp, in 136-7 (Class Quark 1907, 263; date 1) presents a recession which differs widely from the MSS.

The main general conclusions of this survey may be stated as follows. Firstly, on a broad view the result is to some extent reassuring, though less so than it was in 1904, when Sir F. G. Kenyon wrote. The text of the chief prose authors can now be traced back to the 1st or 2nd cent, a few (Plato, and to a slight extent Demosthenes) even beyond, and it is clear that after LD. I they were substantially the same as the text of the mediacyal MSS Even where the latter are or seem to be wrong, the errors are often shown by papyri to be of long standing, due to quite early corruptions. That papyri written within a century of the date of composition of the work in question were anything but faultless is shown, e.g. by a fragment of Julius Africanus (P. Oxy. 412), which, though less than fifty years later than the composition of the Kearol, is already rather corrupt. But theories of extensive corruptions due to mediacyal scribes, such as Rutherford's hypothesis of adscripts in Thucygides and Blass's strict application of the rules

of euphony to the orators are either put out of court altogether or rendered very improbable. With regard to the poets the evidence is generally slighter, and except in the cases of Homer, Euripides, and Apollonius Rhodius, hardly extends further back than the 4th cent. With respect to Pindar, Sophoeles, Aristophanes, and Theorritus the conclusion to be drawn from papyri is not that the existing texts of these authors are sound, but that until Ptolemaic or at any rate Roman papyri of them are forthcoming not much is to be expected in the way of improvements.

Secondly, when evidence of 3rd cent. a.c. papyri is available, as it is only in the case of Homer, Plate the Pyroping whos Alexandore, and to a less extent Euripides, a condition of texts is revealed which is widely different from that which prevailed after about a.c. 150. The early Homeric and Platonic papyri vary extensively from the mediacyal MSS; the papyri of the other two authors less so. The longer text represented by the early Homeric papyri is from the point of view of literary excellence considered to be inferior to the vulgate, and the early Platonic paper have been similarly vilipended, but with less justification in view of (1) the subsequent discovery of 2nd cent. Platonic papyri also containing many new variants, some of which are superior to the received text; (2) the distinct superiority of the early Euripidean and Pyropish roos Alexaroper paper to the mediaeval MSS. It is in any case clear that the text of Homer and Plato was before about B.C. 150 in a very unstable condition, and Alexandrian scholarship was in some way responsible for fixing it in the form in which it is found in later MSS. The text of several other authors may well have passed through a similar kind of crucible. The outstanding excellence of particular MSS., such as the Clarkeanus of Plato, the Parisinus of Demosthenes, and the Urbinas of Isocrates, is rather to be explained as the result of an edition than as the consequence of a specially faithful reproduction of the earliest text.

Thirdly except in the case of Homer, papers still cover only a very small part of the whole text of the chief extant anthors, and within this limited area they often, especially in the 4th-7th cent., present a text which is no better or even worse than that of the volum MSS, in spite of the difference of age. But there are by this time many papers which are decidedly superior to the MSS. The authors most affected by their new readings are Plato, Thucydides, Aeschines, and in general writers outside the first rank. Conjectural emendations, especially these involving much change, rarely obtain confirmation; but, though the percentage of guesses proved to be correct is small scholars can claim the verification of many conjectures in the emendation of some authors, particularly Thucydules, Aeschines, the Epistles of Demosthenes, the 'Pητομαή' πρός 'Αλλξανόρου, Apollomus Rhodius, Babrius, Nomins, and the writers of Romannes.

Hardly less important for textual criticism than the new information which is provided by papyri of extant classical authors is the light which they throw on the right method to be amployed in dealing with the old material. There are two ways of procedure. One is to follow in the next the authority of that MS, or group of MSS, which seems to represent the best

tradition; the other is to steer a middle course between opposing groups, and not to take any one of them at all consistently as a guide. The second method throws greater responsibility upon the textual critic by giving him more scope for includging individual funcies, and an eelectic text is liable to be arbitrary, especially when the age of MSS, and their relationship to each other are imperfectly realised as happens in most of the older editions of the Hence modern scholarship has largely tended in the direction of the first method, that of taking one MS, or group as a guide. Of course this method is much more applicable to some authors than to others; in the case of a.g., Euripides, Theorritus, and Assuhines, authors of whom the MSS. are lare and poor, any reasonable text is bound to be of the nature of a compromise between various families. But with Aeschylus, Sophocles, Plato, Isocrates, and Demosthenes in particular, and to a great extent with Herodotus, Thucydides, and Xenophon, the tendency has been to rely almost exclusively on a single line of tradition, though there are some notable exceptions, e.g., Hude's Herodotus and Marchant's Xenophon. On the merits of these two methods the papyri (inconveniently, no doubt, from the point of view of those who would like to see the text of the Greek classies finally settled) speak from the oldest to the youngest with no uncertain voice. They show clearly that the celectic method is right. The family divisions in the vellum MSS, which editors with natural ardour have often identified with known or hypothetical ancient editions, are really of comparatively late origin, and do not reach back to the papyrus period, which ends in the 7th century. In practically all authors the papyri are found to be in frequent agreement with the so-called 'inferior' MSS, and the better have no kind of monopoly of ancient and correct readings. Future editors of authors such as Sophories, Thucydides, Plato, Isocrates, and Demosthenes will have us was already pointed out by Sir Frederic Kenyon, to be prepared to find the truth in witnesses which usually are inferior, and to follow the example set by Mr. Marchant in his Xenophon of exercising a comparatively free judgment in deciding between conflicting MSS, in place of a strong bias towards a particular group.

Papyrology has hardly been in existence for more than 30 years but its results in the domain of textual criticism are of considerable importance, though they are apt to be obscured partly by the more brilliant light shed by the recovery of many lost classical texts, partly by a natural prejudice against rather disconcerting novelties in a well-ploughest field. Egypt, as far as promising sites for the discovery of literary papyri are concerned, shows signs of exhaustion; but when the rest of the Oxyrhynelrus collection and all the unopened Proleinaic papyrus-cartoniage at Oxford and various museums on the Continent come to be published, the value of the contribution of papyri to the textual criticism of the Greek classics, which has greatly increased in the last 14 years is likely to go much higher yet.

ADMETUS, VERRALL, AND PROFESSOR MYRES.

You loss your temper with Admetus because he doesn't want to die. Have you Lafrington. ever died yournilf?

None but cowards are atract of death. Wadwad.

The hero's death, tree. But death in con's bad? Everybody is afrant of it, induling the hero. It's anture. Do you suppose I would have fused about Administra. my life if it had been a question of mying my wife from the enemy or defending my property ? Still, for all that ,

William. You are like people from another world, talking a language whose words I understand, but can't make out the serve

We are talking Greek . . . Actionships

Enripoles. Wieland belongs to a seet watch tells torqued men that they will live a failer.

happler, stronger life after they are dead.

Admittee. He is behaving as if he did. But no, he is human arough to not like me, if he ween menty thoon.

Alexage (to Westmar). You just ush your wife about that

Courses Coller, Heller, and Wiebend, 1774, vol axxion in the Weimer edition.

MANY people have failed to understand the Alcestis, and for the regsons Goethe suggests. Romanticists are grieved because Admetus Pheres, and Heracles are human beings. As M. Masqueray observes, Notre hypocrisie s'accommode mal d'une telle franchise. Verrall is delighted that the characters should be human beings, but refuses to permit them to 'talk Greek His rutional theory that the object of Euripides was to expose the mirrorlous legend, by suggesting that Alcestis never died at all, rests on an assumption that, to an Athenian, the resurrection of the beroine, 'as a prece of history; asserted or demied, was a matter of religious moment. But, for a Greek, the truth of the alleged resurrection involved no vital issues. The first lesson of religion was not Believe that Apollo, through Heracles, could ruise Alcestis from the dead, and; believing, have faith and hope, but something very different; 'Know that then art mortal, and, being mortal, practise moderation.' It was the unorthodox, the 'progressive' who, in ancient Athens, ventured to believe that mortal men should practise immortality. Euripides contributed to new ideas by criticising the old. But his task was as far removed from that of Verrall's 'Professor T. H . . . ' as was the mind of Niklas from that of Mr. Gladstone, For an ordinary Atheman the point was not that Alcestis rose from the dead, but that she died to save her husband's life. To argue the possibility or impossibility of her resurrection would, I submit, have appeared to the Athenian as trivial as it is depressing. If we want to understand Greek plays, we must remember that they were written by Athenians for an audience which was pagan, not Christian, Greek, not English. The characters talk Greek. It is our business,

before we begin to criticise, to ascertain exactly what they say.

What, for instance, are we to think of Admetus' hospitality to Heracles ! Vernall regarded it as a proof of callousness, and discovered unanimity of condemnation among the decematis personae. But how did he arrive at that discovery! By ignoring the natural meaning of Greek words, the matural significance of perfectly familiar proverbs. He had every right to point out that the first justimet of the chorus, when they hear Admetus myiting Heracles to enter his house is one of horrified amazement. But be is driven to strange shifts when the hero's explanation swiftly, and to a Greek quite naturally, converts the chorus. In an ode, whose beauty he admits, they recall the hospitality of Admetus to Apollo and the blessing that followed. They compare that famous example of piety with their master's present sensitiveness to the claim of friendship, and express a certain hope that plety will again have its reward (600 ff.):-

> το γαρ εύγενες έκφέρεται προς αίδω. έν τους άγαθοίσε δε πάντ ένεστιν σοφίας. δημιας, πρώς δ' έμα ψυχά θάρσος ήσται θεοσεβή φώτα κεδνά πράξειν.

For Verrall, this becomes: It is a part of good breeding to tend exceedingly to the point of honour. Upon the noble all virtues rest. It is amazing; but we have a settled conviction that the god-worshipping man will fare well and do well. By a series of slight inaccuracies or ambiguities, he has contrived to make the chorus appear puzzled, instead of impressed. 'They are making the best, he says, of whatever Admetus chooses to do. And at this point, sentence upon Admetus' conduct remains in suspense."

To an Athenian such an interpretation would have seemed preposterous. Allow, for a Greek, is the sum of orthodox virtues, and it is identical with that 'wisdom' which brings true prosperity.\ It has a perfectly definite content. 'It is from health of mind,' the Eumenides tell us, when they are laying down the fundamental precepts of Greek morality, that the prosperity, which all men love and all men pray for comes.' And they define true wisdom thus: 'Therefore let a man be undest-minded (alcourers), observing well the reverence that is one to parents and entertaining guests with honour in their houses." And again, when they talk of sinners, they are not vague in their catalogue, but specify as typical criminals all who lave sinned against a god, a stranger-guest, or their parents. When you invoke blessing on a Greek city, you pray that it may deal justly with strangerguests, honour the gods, and reverence parents; for that is the third of the prescripts of justice.' Sometimes, it is true, the proverb is slightly varied, and you are told that the three essential virtues are ' to honour the gods, and

Eur. Hereif. Fr. (N. 653). The equation activimo copia, Eur. 7.A. 565, has denmario

Areth. Erm 538, 548, 260; Sup. 700; importance for that play. For the dramanc importance of sugar here, we All 303, 227, 852, 505, 728, 770, 1003.

the parents that got you, and the common laws and customs of Hollas.' That form of the ideal is worth remembering at Alerstis, line 684.

As for agapas, which Verrall contrives to turn into a protest, it is really an expression of the deepest respect and admiration.2 It is the ward with which the coming Odyssous flattered Nausiena when he assured her that the sight of her filled him with awe. It is the right word for the expression of admiration for a soldier, who braves death for his country's sake. And it is the word that Plato uses when he wants to describe the wender of the gods at the heroism of Alcestis hersetf-a wonder which made them do for her what they have done for very few mortals-send back her soal from And, finally, the scitled conviction that a good man will prosper is so commonplace a proverb that we need not embark on controversy whether

a Greek could have interpreted scord spages in a Verrallian sense.

Noblesse oblige. It is the virtuous who are possessed of wisdom. I am full of wonder and respect, and am persuaded that so god-fearing a man will theet his reward.' It is the chorus, not Euripides, that speaks. But it is important accurately to determine what is said. It is important for this reason. In drawing the character of Admetus, Euripides has given him, in complete harmony with the legendary tradition; the typical virtues of the old Greek aristocratic ideal. He is proud of his birth and sensible of its obligations. He is pre-eminent for Albox That is, he is a man who honours the gods, for which he has his reward, a man who has honoured his parents, as he himself remarks, but lass not received from them the somewhat extravagant return which he, and the tradition, expected; and finally a man who is noted for punctilious observance of all the claims of friendship. He is a typical good man; but, in spite of all, being, like ourselves a human being, he has much to learn. The central interest of the play is not a problem about resurrection and minutes, but the education of Admetus to a new and better view of life.

I say advisedly, a botter view of life; not simply a new view of matrimony, though Professor Myres is justified in laying great stress on that aspect of the play.

have obtained a copy of Enripales. Alcertia mys: "D Asserper . . | Xelp on you dx Ballon a' desirence & diel juliene spoliciese ydo a' derestora uni reine | deficure de l' lada tel porq seargastat Myres paragibre : For her married tile she has no bard thought. Tragic as it has been for her; it has at less brought dissater to no one but largelf; and it has only brought it to Arr because, for her, remarriage would have been untolerable betrayed of her troth to Admetus. But why not paraphrase thos: 1, . . It has only brought it to her, because, for her, a refumil to din for has husband, when one or the other had to the, would have been intolerable betrayal of bee truth? Aserson resident engrests aful.

^{2 (}Al. vi. 161-168; Kur. Phoen. 1042, Aber.

^{242;} Plato, Sympt 1700. See Myres in J.H.S. 1917, pp. 106 ff. Though I agree with much that Myres says, I do not think the morive of Alesstie is to good remarriage. Alcosts due in unfer that Admetos may live; and that makes all tim difference, whom the asks him not to marry again. The request is absormal, but Myras does not explain Hip 858-862, where Thesisus expects just the same request from his dead wife Perhaps he would say that Thesens was old and Admetus voure. Dat the real test of his argument is in lines 170-181, where Myres paraphrases, but does not quots. For the take of greater accuracy I

The legend said that Alcestis nobly volunteered to die for Admetus, and orthodox sentiment paid her the tribute of an easy admiration. 'A model wife, ind-ed. Euripides, by bringing the story down to earth, by making the characters human beings, with motives, prejudices and passions like these of his contemporaries, forces his audience to face the implications of the phrase. If women can be like that, if a wife can die for her hasband, will not the man whose life she has purchased with her own, find all his notions, all his feelings about marriage and about women, revolutionised! It is through the devotion of Alcestis and his gradual realisation that she means more to him than all external moralities, more than his prosperity, more even than life itself, that Admetus becomes human. Yet the play is more than a tract for husbands, more even than a plea for a better understanding and a more worthy relation between men and women. It touches something universal which can still appeal to us who think, at any rate, that we have, as a society, absorbed the lessons about marriage and about women which were revolutionary novelties to Athens. The legend held that Admetus was peculiarly virtuous, and was rewarded by the gift of an extra span of life. I think Enripides suggests that the morality which calls Admetus 'happy' because his life is prolonged at the cost of another person's sacrifice, is superficial. He suggests that the person who sacrifices may be more fortumate than the beneficiary. Life, as Alcestis says is esteemed more precious than anything else. But, before the play is done, Admetus knows that there is something more precious than life, and that that something is indeed what alone makes life worth having.

This reading of the play enables us to see the relevance of the scenes which puzzle both comanticists and rationalists. The prologue, the choral odes the scenes with Heracles and Pheres, fall into their proper place, as part of a concerted whole. But always we must remember that Euripides is working with old mythology and old proverbial morality as his material.

The prologue begins, as we should expect, with a hint of the fundamental problem. The foundation of Greek religion, as we have said, is the destrine

tery ; but that does not imply what Myres wants. She this (to put the phrase at its highest became the return to do manthing which for her would amount to as great a betraval or emillery. What? An Athenian andience would naturally appear the meant referring to die for him, not 'unerylage again. Myres treats 157 as an indication that Alestis and lieve expressed 's paint of ciew new, emprishing quite incompro-housible to the Maid. Is he not treating signature of Verrall trented Lynam: And these Ispan suggest the expression of a point of view, etc. ? I welcomit that fine 157 refers to the whole of Alexers' behaviour, as merated. It some to me sufficiently sublime. Finally, in his anxiety to make Alegatic request as

abnormal se possible. Myres paraphranelines 500-502, sirasopar yap o' ajus pie abversexer yap side dere russerger, into 'It la aciery hig thing that I am about to ask of yan, Admenus; almost as big as what I am about to do for you.' Would be paraphrase H in 101, se yap duel dexes, into 'The wealth of thion as almost, though not quite, as much to me as my life 'I to 227 he waters down dexes all operar baparary (which he prefers tor some russum, to stree, analysis) into ascidents (of course) spart.' But it incares 'If he continues to be in his right mind 'es' sparser. Later, is a true, when the first emotion is over, the textural man, the opensimple of idulity as passed (1003).

ούκ αν δύναιο πάντ' έχειν à μή σε δεί.

Again and again Death insists on Justice. Apollo prophesies that Herneles will rob Death of his prey, but not before Death's arguments have reinforced in our minds the mention of Asclepius. Men cannot expect the decrees of fate to be aftered in their favour without compensations. There is really

something in Death's point of view.

But the chorus like most of us, hanker after the impossible. They know the terms of Apollo's bargain, yet they hope against hope that something may intervene. They cry to Paean (92). They know that all the gods have been approached in vain (120, 132). There is no help to be had from the oracles of Lycis and Egypt (112). And yet they cannot help recalling, Aselepius raised men from the dead—until the thumberbolt of Zeus put a stop to it (127). Again and again, throughout the play, these ideas are repeated in various forms, with various modifications. They are part of the lyrical machinery by which the requisite atmosphere is created for the human drama.

When we are introduced to Admetus we shall find that he too, is asking for the impossible. His first words voice the protest against mortal destiny which Apollo championed when he killed the Cyclopes. What have the gods against us' he complains, 'that Alcestis should die!' The appeal to justice is characteristic of the man. But he forgots. The gods have given him not less, but more, than they give to most men. He is to live beyond his time if Alcestis dies. He begs Alcestis to beseach the gods for pity (251), and in the same breath, inconsistently, he begs her to 'rouse herself' and live. At that point he is not asking her to rovoke her decision and let him die. He does something like it at line 275, but even then the terms of his appeal are neither happy nor convincing:

σοῦ γὰρ φθιμένης οὐκέτ ἄν είην.

Though the acers has folkling elements serious. There are many randminimeness of (Lawren, Modern Week: Folklore, p. 115), it is From 931 ft.

No doubt, says destiny. But where will you be if she lives? He has not clearly faced the situation. His distress is genuine enough. But, as the Maidservant has told us, 'he does not know, until he shall have suffered.' He simply 'begs her not to betray him' (precisely what she is dying to

avoid, 180) - rupiyava Enrice.

This does not imply that he is particularly selfish, certainly not that he is contemptible. Simply, he is conventional and unimaginative. When Alcestis makes her great request that, for the sake of the children and for her honour, he should not marry again, she puts it on grounds which she knows, will appeal to him. What she asks is less than what she gives, but just—as you yourself will say. She knows how Admetus regulates his life by the great rules. It is the way of a good man. His assent is eager, not reluctant. Then he begins to reflect. He proves to himself how small the sacrifice will be. His protestations are extravagant, but not insincere. They show that still he does not understand. So Alcestis ignores everything except the promise not to marry again. She dies, and her last word to him is $\chi \alpha i \rho \epsilon$. I wish you joy. It is the little boy, not Admetus, who breaks out into lamentation. Anyone who has witnessed the Bradfield performance knows the value of that fact.

So Alcostis is dead, and we embark on the sequel, which has seemed to so many interpreters unworthy of the prelude. Time will assuage: the dead is nothing, Alcestis has told him (381). Will that prove true?

After the silence, the chorns offer customary consolation, an orthodox admonition to patience. 'You needs must bear your troubles. You are not the first. You must recognise that death is the debt which all of us must pay.' True, but on this occasion the ancient consolation sounds inadequate. On this occasion someone else has paid. But Admetus will behave as a good man should. He acknowledges mortality. He is prepared. He has suffered in anticipation. And having giving instructions for the public

mourning, he goes off to make his preparations for the burial.

When he comes back he finds Herneles at his door. What is he to do! Shall he drive his friend away because of his private grief? Intolerable to a man whose life is devoted to Aibox. But if Herneles is to be entertained, he must not be told the truth. In virtue is wisdom; and, calculating animaginatively as is his wont. Admetus can persuade us that to turn his friend away would simply add an evil to the present sorrow. And that is forbidden by Aibox. Yet I think we are intended to feel that there is something too mechanical about his virtue. The first instinct of the chorus is right. If his heart spoke, and not his virtueus head, Admetus would tell his friend about the trouble. But he does not tell him, and so he has to talk in riddles. What has not been observed is that the ambiguities reveal, in spite of that virtuous head, a heart that is beginning to break. When he says, of his wife,

έστιν τα κούκετ έστιν άλγύνει δ' έμέ,

A See 1085-6 :

HP. goden palafer . . . Ad. . . . el goden el nardarele.

is he not realising that the dead are not always dead! Is there no hitter discovery behind the sophistry of τίθνηχ' ὁ μέλλων? And when Heraeles insists on the plain man's distinction between 'is' and 'is not' the answer seems to me to be more than an evasion:

συ τήδε κρίνεις, Ήρακλείς, κίνη δ' έγω.

Alcestis is still with him, working on him. But the suggestion that Heracles will go to some other house rouses him like a blow. His melancholy fulls away. An actor should deliver line 539 with violence. After that τεθνάσε, for the present, of θανόντες. But we have already seen that Admetus has a heart.

He has, but his self-complacence remains. For himself, as for the chorns, he is still the model of Helleme virtue. It is at this point that the chorus celebrates his noble birth, his rightmundedness, his possession of the wisdom that is virtue, his piety, which will surely bring him good. Both Admetus and the audience need a shock before their eyes are opened. And a shock they are to have from Pheres.

One part of Alòws, and an important part, is the honour due to parents. But the parents of Admetus have betrayed him. They ought to have died for him. Alcestis herself could not understand their selfishness. With characteristic generosity she said, some god has brought it about that things should be as they are '(297). Her thought was more generous and more profound than Admetus could understand. He could see nothing but the betrayal. All he could answer was that he would hate his parents, as a proof of loyalty to her. As if she wanted that I He had not heard, and would not have understood, her language when she said My marriage bed. . . I hear you no ill-will, for you have brought disaster to no one clse but me '(179).

Admetus thinks it monstrous that these old people, having had their fill of happiness, should cling to life. Though the poet has, in my opinion, left ambiguous the precise degree of responsibility, or lack of responsibility, of Admetus for his wife's sacrifice, he has left no doubt about the parents, Admetus canvassed them, expected them to volunteer. That is in accordance with the normal view of the Greek tradition. The originality of the Pheres scene consists not in the indictment of Pheres, but in his presentation as a real person, with semething to say, semething which is disquieting to all of us, who assume that we are so much his superiors. Euripides makes us feel his reality, and his kinship with Admetus, and ourselves. When we condemn Pheres, are we so sure that we should act differently in his place? And Admetus by condemning him, implies that he is prepared not only to

comparated to the for his limitant, becar about curper to and surrate, one besieve recourse trapedators of picking. . . Earn decorate about about the continue becar of also and despect picker prophenomen.

The normal Greek view is expressed in the drinking song which, Emetathins tells un (R ii 711), must to be song at Albenos ' Abstract Koyes & 'raise answe, rais hyadein place, rais header & arriver, years by: header oldys gipt.' Plate, Spraposeum (1798): Aloestin

accept, but to demand as a right, a sacrifice which no man has a right to ask from another. Pheres is base to refuse. We may dismiss, if we will his accusation that Admetus is a murderer. It is, on any interpretation, a calumny. But, for all that, he lays bare the soul of Admetus. At heart Admetus, the aidoios, is avaidie. He prides himself on justice. Well, he claimed his parents' lives, in order that he might himself escape payment of the debt that all men owe (contrast 682 with 419, 782). Pheres intends to behave with what he considers decency. The pious platitudes with which he offers consolation recall, point by point, the sympathetic admonitions of the charus. From the chorus Admitus could accept them without perception of their irony; but from Phores, these same proper sentiments are intolerable. No wonder Admetus launches on his indictment. He harps on justice, alous, elyerera. As against Pheres it is a good enough case. It is true enough, if death comes near, nobody wants to die. Does Admetus? Did not Alcestia | The roply of Phores is not only a brilliant exposition of his own egoism but also a revelation of Admetus to the audience. It stings, precisely because of the hard core of truth beneath the malice. And in the long run it helps to break Admetus' heart. For the present his reaction is one of righteens indignation. He renounces his parents, in language of characteristic pedantry (737, cf 425 ff) Pheres deserves it, but the man of Alber is committing the last impacty. His righteons indignation will pass. On the road towards Larissa, at the tomb, and on the way back, he will have to face himself. He will have to come to terms with the problem set by Pheres:

ή δ' ούκ άναιδής τηνδ' έφηθρες άφρονα.

Every point in Pheres' chesis touches on the traditional excellence of Admetus. Is the appeal to justice! Does Admetus plead that he has always done his duty by his parents? It is not Greek, it is not among the rules, that a father owes his son his life.

Admetus teels the pride and obligation of birth. Well, this creature, who is his father, also has a sense of birth. He is no slave, and claims the treatment due to his position. When a Pheres makes thus claim, we feel how little it matters; and when Admetus returns from the grave we shall find that the nobility of birth, which counted for so much to him, has dwindled into insignificance (920 ff.). Do you rejoice in living, and do you think your father has no joy in it? We remember how Alcestis bade Admetus rejoice. 'Be silent; and reflect that, if you love your life, so all men do.' When Admetus comes back from the burial, he will cry, 'I envy the dead: I am in love with death.' Admetus cares much for his reputation."

you care to realise what good fame means in Greek, read Walter Headland's essay (C.R. xix. 1995, p. 149) on Pimlar, News, viii. 32 ft. Greece, as he shows, impired Milton when he sange Fame is no phast that grows on mortal said. But lives and spreads about by those pure eyes [And perfect witness of

^{*} The Honeric leve burght and dust for fune. Admetus great unvisity for reputation is not contemptible. Good fame is more to a Greak, and ill fame man nearly approaches guilt, than we moderne generally admitthough here again, perhaps, "notro hypograms s'accommode mai d'ons telle franchise." It

That too he is to lose (961). It is the cynical admission by Pheres of contempt for reputation (726) which moves Admetus to cry out against the shamelessness of the old. That a man has a right to one life not two, is true enough. But it is only part of the truth. Alcestis knew more. And in the sequel Admetus understands (712, 883, 900).

But the most dramatic and the most illuminating passage of the whole dialogue is Pheres' swift retort to his son's impatient cry 'Well then, I hope you may live longer than Zeus homself.' The answer is 'You carse your parents, though they have done you no wrong!' Pheres, by all the standards

of normal Greek, is right when he calls it a curse.

Heracles is an ordinary human being, very generous, somewhat stupid, full of life. It is, indeed, only his vitality that is abnormal. We must not judge him solely by the evidence of the outraged servant. He sings when he is merry, and the servant, not unnaturally, fluits his singing 'a discordant howl. But that does not justify us in assuming that he is disgustingly drunk. He calls for his food with gusto, which, in the circumstances, seems to the servant outrageous. But the servant does not understand the circumstances (751, 807). When he has wine in him, he philosophises, as human beings will. But he does not talk nonsense. His philosophy is vital to his character, and relevant to the main themse of the play. No man knows whether he will be alive to-morrow; every mortal owes one debt; we all shall die. Therefore, take pleasure as you find it, enjoy the gifts of Kypris, and, being mortal fit your thoughts to your mortality. That is one inference from the fundamental fact that mortals have to die. The other he puts into practice when he goes out to fight Death. It cannot be too often reprinted that Sarpedon's exhartation (IL vii, 322) represents one aspent of the normal view, the nobler aspect, nobly stated, but still, for Greek heroir morals, normal;

του δ', έμπης γάρ κήρες έφεστάσιο θανάτοιο μυρίαι, ας αδκ έστι φυγείο Βροτόο . . . ίδμου.

That is the view on which Heracles, soher, acts. The dialogue with the charms on his first arrival was the device by which Euripides ensured that this other aspect of Heracles should, from the entset, be before our minds. Heracles is already on his way to face death or victory. He will get nothing for himself if he wins (488-491). Samply, it is his destiny to face children of Ares, and his answer to destiny is that no one shall ever see the san of Alemens (the son of his mother, you notice) play the coward

Counder what we have witnessed. We have seen Admetus, the sincere, mechanical devotes of an exemplary orthodoxy, claborating, in quite genuine distress, the programme of a life of mourning, which he felt was only fair, as a return, for his wife's great swriftee. The programme was grandiese,

houres mad have a deduction ... belo doctris addandres half receives defear enables misses where moreover, for he dustress due, receives addance made and addance of poors.

II) judging Jove, Am) then consider Plates. Symp. 308 c. u.: Offic as, Ipn. "Adapted beig "Adapter developing Sr. it "Azakis Harriston, transduction. ut singureer starter sensor.

impressive, artificial. It would have meant a life which Heracles would have described, and rightly, as 'not a life, but a misfortune' (802). Real life burst in with the irruption of Heracles. Admetus tried to combine loyalty to his programme with punctifious observance of the claims of hospitality. But his conception of those claims, like his loyalty, was formal, decent, correct. It did not reach the heart of friendship. Yet we could see that he had a heart.

There followed the some with Phores, with its exposure of the soul of Admetus. It was necessary that Admetus should react with violence. When he curses his father, his theory of life is crumbling about him. He is himself, at that moment, convulsed by egoism. But the convulsion is a sign that the devil is about to pass out of him.

After such a scene, it is not simply 'comic relief' that we need. It is a touch of simple humanity. That is what Heracles brings. The blundering generosity of Heracles softens and heals, for we, too, if we have imagination, have been painfully revealed to ourselves.

Meanwhile Admetus has been burying his wife. Heracles has not merely comforted us, but has prepared us to receive the hero on his return. Admetus, when he comes is changed. He has forgotten his indignation. Notice how simply he refers to his mother (contrast 637, 865). He has learnt sympathy even for servants (see 638, 675, 771, 948). Above all, notice how he replies to the challengs of the chorus, the last and clearest statement of the old assumption about life and marriage. You have had your trouble, as all men have, but you have also had great good. You have lest your wife. But you have your life. What is there now in all this

He answers that he counts his wife more fortunate than himself. He has learnt much, but the play is not yet over. His pride is gone. He can no longer comfort himself, and arm himself against humanity, by thoughts of his picty, his prosperity, his reputation, and the wickedness of other people (958-961. The last line is vitally connected with line 605. He has recognised, in the spirit, not merely intellectually, his nortality. But for him and for the audience the pious moralising of the chorns, about Necessity and the proper inferences, have become inadequate. Thus far Europides has brought as

The last stage is still to come. Heracles with his blandering human nature unconsciously works the miracle. At line 1067 Admetus, for the first time, really breaks down. He has fallen in love, not with the strange woman whom, in spite of all the codes of friendship, he cannot bear to take into his house, but with the wife of whom her physical presence reminds him. It was necessary that this should happen. He had to fall in love with Alcestis before he could receive her again and enter on 'a better life.' I will leave the reader to discover for himself the many subtle touches in this scene, which invests with fresh significance and new emotion old themes of the play.

The stages are marked by the words here are him (940) and here. The words (1970). In 1967 ft. the symptoms of his emotion are

traditional symptoms of lyrical position, innormalised by Supplies.

I hope I have said enough to convince him that the parting words of Heraeles are neither ironical nor inadequate. Heraeles is still Heraeles, no more no less. 'Go on,' he says, 'in your life of piety to iriends and justice. I give you joy. And I, for my part, must shoulder my burden, and go on to my next labour.' He does not stay to hear, and he would not understand, if he heard, the final utterance of the hero

υύν γάρ μεθηρμόσμεσθα βελτίω βίον τοῦ πρόσθεν οὐ γάρ εὐτυχῶν ἄρνήσομαι.

But, although Heracles would not understand the full meaning of these words, he would not being a Greek, who talked Greek, have thought, with Verrall, that the last clause was a gradging admission from a man who was still an egoist.

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CORNELIUS NEPOS ON MARATHON AND PAROS.

It might seem waste of labour to examine minutely an account of the battle of Marathon and the Parian expedition so late as that contained m the brief live of Millandes ascribed to Cornelius Nepos, more especially as I must confess that the results of my enquiry are in the main negative, and that such positive conclusions as I reach have not the charm of novelty, but serve merely to strongthen theories already well known and in England at least widely accepted. But this late epitome is almost the only consecutive narrative of these events outside the pages of Herodotus. Marathon was sung by poets, and bespattered with rhetoric by patriotic orators, but such historical accounts as there once were of the battle have perished save for the still later epitome of Trogus Pompeius made by Justin. Again there is good reason to think that Cornelius Nepos is here following the fourth-century historian Ephorus. This is manifestly the case in his account of the Parian expedition, the kernel of which is little more than a translation of the fragment of Ephorus preserved in Stephanus of Byzantium & Paros. That Nepos draw his story of Marathon from the same source is the general. and as I shall hope to show the right opinion though it has been denied by Dr. E. Meyer. Further, the view of the campaign and the conception of the battle to be found in Nepos have been accepted as historical by many of the highest authorities in Germany, e.g., by Des. H. Delbrück, G. Busolt, * and in the main by Ir. E. Moyer And at last there has been an effort to deal with a difficulty treated with lordly disregard by the German writers viz the lack of avidence to support their theories; for in a recent article Mr. Casson* has tried to show that Ephorus has not only given us a more reasonable account of the battle than Herodotus, but has also preserved for us a tradition ignored by the earlier historian. If, therefore, we are to maintain the superiority of the Herodotean story with all its imperfections and of the reconstruction of the campaign first put forward by Mr. Miniro and supported by Dr. Grandy, we must show the hollowness of the plansible but shallow theories of Ephorus.

Epilorus, (r. 107 | Müllur, F.H.G.). 363.
 Gerchickis des Altesthams, 36, § 134, 6.

p. 332

^{*} Die Perserkriege und die Burgundeckriege, pg. 52-55; Heutkinhte der Kriegekwat, P. 50-71.

^{*} Oriochiache Genchichte, III. 581-96.

Geschichte des Attentiums, int. §§ 192-3, pp. 326-336.

^{*} K2lo, xiv. (1014), 69-90.

F J. H.S. rix, 185-07.

[&]quot; Great Priving War, 160-194.

First, however, I would argue (in opposition to an obiter dictum of Dr. E. Meyer) that Nepos copied Ephorus in his account of Marathon as well as in that of the Parian expedition. Dr Meyer would seem to be biased by two pre-suppositions, neither of which is tenable. The first is his general thesis 30 that the biographers, Phitarch and Nepse, drew almost exclusively from a brographical Hellenistic tradition, while the historical compilers followed historians (e.g. Diodorus, Ephorus). This may well be true in the main of Plutarch, though he is no servile copyist and quite capable of making use of his wide historical reading as well as of culling characteristic stories from monoins and speeches. But with regard to the earlier biographies of Nepos, these of Miltiades Aristides, Pausantas, and Themistocles, I should venture to dispute Dr. Meyer's contention, which indeed he is himself constrained to modify by the admission if that Nopos in his Pausanius and in part of his Themistocles was following Thucydides. I should go further and maintain that in none of those four lives is there a fact mentioned which may not have been found in the best known historians, Herodotus, Thucydides, Ephoras, and Theopourpus. The only trace of a biographer's bias is the manifest wish of Nopos to make the best of his hero. And this may very well be his own doing, not an inheritance from a biographical tradition.

Dr. Meyer's second ground would seem to be a belief that Justin and not Nepos gives us in epitome Ephoros' account of Marathen. Now there is some reason to think that Trogus Pompeius, whom Justin epitomised, drew part of his history from Ephorus. The fact that Trogus closed his eighth book with the siege of Perinthus by Philip " just where the work of Ephorus, or rather its continuation by his son Demophilus.10 ended), goes to show that Trogus was in that part of his history following Enhorus. But this is no proof that he did so for the Persian war. On the contrary, it is certain that in the period from the Persian to the end of the Peloponnesian war (480-404 a.c.). Diodorus slavishly copied Ephorus, the except in the Sicilian sections, which probably came from Timaous. Now there are no doubt striking points of resemblance in the accounts given by Diodorus and Justin of Xerxes' investion, particularly the numbers given for the Persian army,14 the description of the night attack made by Leonidas on the Persian camp 23 at Thermopylae, and the importance escribed either to the promise of or to the actual withdrawal of the Ionians from the Porsian fleet at Salamis," But if there are these likenesses there are differences no less remarkable. Justin (xix. 1, 12) distinctly denies one of the most important novelties

V Geschichte des Alterthums, fii. 9 194, je 332

[&]quot; Forschungen zur aften Gousbichte, it 65 L

¹⁴ Phid. IL 68.

E Ct. A. von Consubmidt, Kleing Schriften,

¹⁴ Cf. E. M. Walker, Hellenies Oxyrrhyn

¹² Striking confirmation of this view is to J.H.S.—VOL XXXIX.

be found in the new tragments of Kaborus CL tirenfell, Oz. Pap. Pt. siit. No. 1610, pp. 98-127.

¹⁹ Diodorus, at. 3, 7 and 5, 2 - Justin, it. 10, 19.

u Ral, xl. 0 and 10 = Justin, ii, 11.

⁵⁴ Rock, xc, 17, 3, 4, Cl. Justin, ii. 12, 25,

in Ephorus. It the alliance between the Great King and Carthage, while he ascribes the aristeia for the whole war to Athens and its general Thomistocles, whereas Diodorus only allows them the prize for valour in the minor engagement at Artemisium, reserving the greater glories of Salamis for the Aeginetans, and of Plataea for the Spartans and Pausanias. Nor is it funciful in my opinion to see a return to Herodotus in Justin's simplatic reassertion of the appeal of Thomistocles to the Ionians is and of the horizon of Xerxes' retreat in (passed over by Diodorus) bedizened though both these episodes are with the meretricious rhetoric of a later age. It is at least clear that Trogus did not follow Ephorus exclusively or slavishly in his account of the greater Persian war, and so the assumption that he did so in the story of Marathon remains unproved and improbable.

But if we turn to Cornelius Nepos how high is the probability that Ephorus is his original source. The succeeding chapter on Paros is as we have seen translated from Ephorus—and there is great similarity between the two stories. In both narratives, which as given in Herodotus contain olyvious gaps and delects, are rendered rational or at least plausible. The religious motive, so prominent in Herodotus,21 disappears and there are substituted at Marathon as at Paros political and military reasons, which make the actions of the Athenians and of their opponents reasonable and intelligible. In this and other similar points Justin is far less plausible and therefore far lesselikely to represent Ephorus. For instance while both authors insist on the eagerness of the Athenians to fight, and on the speed with which the battle followed the march to Marathon, Nepos at least makes the Persian leader Datis force on the battle in order to anticipate the adventof the Spartans, while Justin represents Milliades as too impatient to wait for his own allies. Similarly the numbers of the Persian forces, incredible snough even in Nepos, are far more grossly exaggerated in Justin. While the former is content with a total of 200,000 foot and 10,000 horse, reduced in the actual hattle to 100,000 foot and 10,000 horse, Justin talks of 600,000 Pursians, and asserts that of these 200,000 perished by sword or shipwreck.23 Finally there is in Justin a distinct effort to retain some features of Herodotus story which have altogether disappeared in the more critical accountin Nepos. In particular I may mention the exploit of Cyneginus, spoiled though it be by tasteless theroric in Justin," and the famous charge of the Athenians who are said to have traversed the mile between the two armies ante inclum sagittarum

But enough of Justin: I pass to a detailed examination of the principal

Ephorus, fr. 111, ap. Smol., Pind., Pyth., 140; Muller, F. H. G. 1, 264. Cl. Godarus,

Juniu, n. 14, 10, 11, as agrumt biodorns, zi, 13, 2; 27, 2; 33, 1.

Ibid, ii. 12, 1-7 = Hit. viii. 10, 1, 22.
 Ibid. ii. 13, 8-42 = Hdt. viii. 115-20.

³¹ Ct. for Pares vi. 134, and for Marathon

the visions of Philippides, vi. 105, and of Episelne, viii 112.

Nep. Mill. 5, 1 and 4, as against Justin, n. 0, 9-11.

²⁵ Ibol. 4, I and S, 4, as against Justin, 31.
9, 8 and 20.

²⁴ Justin, u. 9, 10-10 - Hat. vi. 114.

³ Rot 1 0, 11, Ct. Hell. vi. 112,

elements in Cornelius Nepos. Before attempting to weigh their worth it may be well to give a brief summary of them (cf. Macan, Herodotus IV-VI), ii. 206).

(1) The force sent by Darius was 500 ships, 200,000 foot and 10,000

horse under Datis and Artaphernes [Milt. 4, 1].

(2) The cases belli alleged was the help given by Athens to the Ionians in the capture of Sardis.

(3) The royal praspecti touched at Euboca, quickly reduced Eretria, and

sent its inhabitants as emptives to the king (Milt_4, 2).

(4) From Eubora the Persians crossed to Marathon, a plain ten miles from Athens.

(5) The Athenians sought help from Sparta only and sent Phidippus, a runner, to beg for aid with all speed (Milt. 4, 3).

(6) At home ten practors are created to command the army. They dispute among themselves whether to stand a siege, or to march out to battle (Milt. 4, 4).

(7) Miltiades urges strongly the latter course (the pitching of a comp), as likely to encourage the citizens and to discourage the enemy (Milt. 4, 5).

(8) The arrival of a thousand Platagans at Athens turned the scale in favour of Miltindes. N.B.—The 1,000 Platagans made the total Greek force 10,000 (Milt. 5, 1).

(9) The Athenians, moved by Miltindes' weight (auchorites), much out

and encamp in a suitable apot (Milt. 5, 2).

(10) Next day, at the foot of the hills in a position strong by nature, i.e. protected by mountains, and improved by placing trunks of trees to impede the operation of the enemy's cavalry, they join battle (Mill. 5, 3).

(11) Datis perceived the disadvantages of the position, but trusted to superior numbers and was anxious to engage before the arrival of the Spartans (Milt, 5, 4).

(12) He drew up in line of battle 100,000 foot and 10,000 horse.

(13) But the Athenians so completely routed a fee of ten times their own strength that the Persians fled not to their camp but to their ships (Milt. 5, 5).

Now in this account there are a certain number of obvious anachronisms which may with great probability be assigned to Cornelius Nepos hunself. The creation of ten practors (6) (apparently at the last moment), the insistence on the pitching of a camp (7, 9) and the anctorities of Militades. (10) like the more harmless royal practors (3) and Persian camp (13), have a right Roman ring which betrays their origin. From the same source came in all probability the impossible name Phidippus (5) and the palpable error in the estimate of the distance between Marathon and Athens (4) (10 miles instead of 22). But apart from these blemishes the stary has a coherence and plausibility which has led many modern writers to infer its truth. In particular they are inclined to adopt Nepos view as to the command at Marathon, and to accept his statements that the debate among the generals

took place at Athens and dealt with the question whether the Athenians should take the field or not (6), and that the decision to do so was due to the insistence of Miltiades and the arrival at Athens of the Plataean contingent (8). At first sight it would certainly appear that in all these points, Nepos. who is clear, coherent, and consistent, is superior to the hesitating and confused account of Herodotus. Yet a closer examination shows that there is more truth in the doubts and inconsistencies of the historian than in the

neat solutions of Cornelius Napos.

Taking first the question of the command explicitly Herodotus declares (ci 110) that the command (xpvramm) circulated amongst the ten generals each being entitled to claim it for one day, so that Miltiades only holds it (till his own day comes round) by grace of his colleagues. But there is a latent tendency to regard him throughout as communiter-in-chief, as is shown by the ascription of all the Athenian movements to him, and by the phrase row o dexaros on Milariados (vi. 103) which would to contemporaries suggest that he was primus inter pares.24 This view is developed by Nepos (Mill 4, 5; 5, 2), though he too implies that Milliades has to persuade his colleagues [Unas Miltiades maxime mitchatur. . . . Quo factum est at plus quam collegae Miltiades valeret. Eins ergo anctoritate impuisi . . .). In Justin (ii. 9, 10) the other generals vanish, Miltiades rules alone [Miltiades et dux belli et anctor non expectandi consilii]. But in both these late versions, and therefore presumably in Ephorus, the polemarch has absolutely disappeared Yet the explicit testimony of Aristotle (Ath. Pol. 22, 2, cf 3, 2) that the polemarch still lod the whole army, the ten generals doubtless commanding the tribal regiments, should surely be accepted. Dr. Meyer, who rojects it. 13 takes no exception to Aristotle's statement (Ath. Pol. 25 5) that the lot was not reintroduced for the archonship till 487 a.c. And that statement removes the only real obstacle to the retention of the command by the polemarch in 490 n.c. It would indeed be incredible that an official appointed by the hazard of the lot should lead the army, but if the polemarch, as well as the strategi, was an elected officer, what reason is there for refusing him the position of general? All the incidental points in Herodotus and Platarch, especially his leadership of the right wing, the natural post for a Greek general " his vote in the council of the strategi, the language of Miltindes' appeal to him, and as it would seem his possession of a casting vote, strongly support the view that, while in the direction of the war the polemarch must consult the council of strategi, he yet remained at Marathon president of the conneil and commander-in-chief of the army. If this be so, Nepes and Justin have cleared away the confusion of Herodotus' marrative by the emission of its more historical elements, and have left us only the erroneous popular opinion which insisted on making Miltiales not

[&]quot; CL Mearur merit (Thue. 1 116, ii, 13, ste.) F. Geschichte des Bierthums, in \$201, in ..

P. Hills, et. 111 i. Plat. Quant. Com. I. 10, 3.

May 625 1

^{**} Enr. Supp. 957 ; Xvii. Heil, il. 4, 50.

[&]quot; Hdz. vi 100, 110. Milliades language resembles that of Thematocks to flory blades, Holt. will. 60.

only the inspiring genius of the Athenian army but also its nominal commander.

Again the removal of the debate among the generals from the field of Marathon to the city of Athens "I seems at first sight rational and probable. No doubt a debate at Marathon, whether the Athenians should light in the field or not, would be an absurdity, but there is every reason to suppose that the determination of this momentous question did not lie with the generals and therefore cannot have been decided by them either at Athens or at Marathon. We have the distinct testimony of Aristotle (Rhot iii, 10, 141 to 10) supported by that of Demosthenes (de Fals, Log § 303 with the scholiast) that it was determined by a decree of the people moved by Milliades. And even if the direct evidence were less clear, procedent and analogy would lead as to suppose that the question of taking the field or staying within the walls would be decided by vote of the whole body of citizens. Milliades in persuading them was the true author of the strategy, as later of the factors, which won the triumph of Marathon. But no room is left for the plansible story in Nepas of a decision taken at Athens by the board of strategy. On the other hand the debate at Marathan rightly interpreted is neither unlikely nor undesimble (a. Mr. Casson calls it, p. 72). It is quite clear from both the more sober accounts of the campaign at that at first the Athenians at Marathon remained strictly on the defensive. The change to the offensive. caused probably by the division of the Persian force, would naturally be debated in the Atheman council of war, and such a debate would obviously take place in the field, when the position and movements of the enemy were known. If the decision to take the field did not lie with the generals, their vote cannot have been determined by the arrival of the Plazacans. And this is of the assence of the story told by Coenchius Nepos (Milt, 5: 1, 2). It is therefore irrelevant to argue as does Mr. Casson (p. 73), that it would be much easier for the Platacana to march to Athens than to Marathan, or oven that if they were going to Marnthon they would insturally pass through Athens. The question between Herodatus and Nepes is far more fundamental, viz. had the arrival of the Platacans anything to do with the decision of the strategi or of the Assembly) to take the field. In opposition to Nepos it may fairly be maintained that imless the Athenians had already taken the field the Platauans would never have come to their aid. No Greek state felt in duty bound to send its forces to stand a siege in the town of an ally but only to join an army in the field. This is the most probable explanation of the mission of Philippides. He was to tell the Spartans that the Athenians were about to take the field against the invading Persians, and to bid them send with speed the succour due in that case and in that case only; to their allies. Conversely when the Eretrians refuse to fight in the field and take rouge behind their walls, the Athenian cleruchs

in Coen. Nep. Mile. 4, 4-5, 2, an against Hill. vi. 103, 100.

⁼ i.e Heroclotus and Nepee to against the

mentors and Justin. Will. 4, 3.

from Chaless leave them to their fate. The arrival then of the Platacans whether at Athens or at Marathon must have been the effect and not the cause of the resolution of the Athenians to take the field. And in that case it is far more likely that they only joined the Athenians in their camp on

the hills above Marathon, as Herodotus implies.

There remain two items in Nepos which have been thought to show that Ephorus possessed information withheld from us by Herodotus, viz. the total forces engaged on either side, and the immediate preliminaries of the actual battle. As to the numbers of the opposing armies it is of course the fact that Herodoms is silent, though he gives precise figures for the slain. But the silence of Herodotus as well as the moderation of the numbers he gives of the fallen, is all to his credit, since it shows that he profess not to give figures which he believed to be untrustworthy and only to record those which were supported by good evidence. And the figures given in Nepos rest in all probability merely on the conjectures of Ephorus. His figure of 10,000 for the Greeks would appear to have been differently understood. Justin (ii. 2, 8) makes the Atlonians 10,000 exclusive of the 1,000 Plataeans, Nepos (Mill. 5, 1) renkous the whole fores at 10,000 and consequently the Athenians at 9,000. In this he has the support of Pausanias (x. 20, 2) and of Plutarch (Mor. 305 s). But it is obvious that both sets of figures rest on a rough estimate of 1,000 hoplites to each Attic tribe. Such a number is likely enough and is supported by the numbers given in 479 kc. 36 but this probability is no proof that Ephorus drew it from an earlier author. And the other numbers in Nepos range from the improbable to the impossible. It is highly improbable that the Platacans should in 400 have been able to send a thousand usen to Marathon, since in 479 RC, they could only muster six hundred to light in their own land, doubtless the utmost effort of which the fittle city was capable." Again the 210,000 warriors attributed to the Medes (Mill. 4. 1) are no doubt an improvement on the 500,000 of Lysias (Epitaph. 21) and Plato (Menex. 240 A) or the 600,000 of Justin (ii. 9, 9). But 210,000. or even the 110,000 said to have taken part in the battle (Milt. 5, 4), is a number rediculously beyond the power of an ancient fleet to carry. Even if the Persian fleet really numbered 500 galleys Nep. Milt. 4, 1) or 600 galleys beside horse transports (Hdt. vi. 95), it could only have carried some 100,000 or 120,000 men, including the crews amounting probably to 50,000. Thus the 200,000 of the whole force, or the 110,000 combatants are alike incredible, though less absurd than the rhetorical exaggerations of the orators and Justin. We need not then consider the numbers in Nepos to be anything more than the more or less probable conjectures of Ephorus. And that such is their origin is suggested by the fact that the estimate is probable enough in the case of Athens where Ephorus had adequate knowledge, improbable

(Hall is, 102 Li

W Hdi. vi. 100.

¹⁰ Think, vit. 117.

^{*} Eight timesond at Platass (Hdt. ix. 28 and \$8.) and an uncertain number at Mycals

²³ Hdt. ix. 28 Beloon, without sufficient ground, rusts doubts even on this smaller number (Benotkerung, p. 105).

for Plataes where he would have less information, and frankly impossible in

the case of the Persians where he would be ignorant.

In the actual description of Marathon the best points in Cornelius Nepos (Mill. 5; 3, 4) are the recognition of the mountains as a feature of the defence, the means taken to strengthen the position artificially, and the account of the immediate preliminaries of the battle. It is the coherence and probability of his view that Miltindes only accepted battle in a defensive position on the hills strengthened against cavalry by the use of trees, while Datis took the offensive in spite of these disadvantages to forestall the arrival of the Spartans, which has caused so many modern historians to prefer his account. Yet even here there is something to be said on the other side. The vagueness of the location of the camp, 'loco idoneo,' contrusts unfavourably with the specific 'Temenus of Heracles' in Herodotus (vi. 116). And Nepos leaves us to guess how the trees were used to protect the Greek flanks against the dreaded cavalry. Again, the presence of the Persum horse is a doubtful gain. Not only is there the allence of Herodotus against it and the clear, if late, tradition preserved in Suidas xmply landis, but if it really was present, how can it have failed to leave any mark on the traditions of the battle ? Must it not, as at Plataes, have done something to cover the retreat of the rented infantry? Above all, how can it possibly have been re-embarked in face of the Athenian pursuit? No satisfactory explanation of these outstanding difficulties has ever been given.

Again, while I gladly acknowledge the reasonableness of the motive which leads Datis in spite of the strength of the hostile position to press his attack on it, viz his desire to anticipate the coming of the Spartans, yet in his action as reported there is a curious inconsequence. Though his total force has been given as 200,000 foot and 10,000 horse (Milt. 4, 1) and he relied, we are told, on numbers, yet he only used in the battle 100,000 foot and 10,000 horse (Milt. 5, 4). The discrepancy can hardly be a mere oversight of Nepos as in his brief narrative the figures are necessarily so close together that the contradiction would strike the most careless of writers. I would rather (with Mr. Munro) see in it a faint trace of a tradition that the Persians fought with but half their force at Marathon,

because a part had already taken ship again for Phalerum.

Further there is a patent defect in the narmtive of Cornelius Nepos. There is not a word about any movement in the battle except the flight of the Persians to their ships. We might perhaps ascribe this to the brevity of the Roman compiler, were it not that Polybius singles out for censure in Ephorus his ludicrous inability to understand and explain in detail the movements and operations of troops on the actual field of battle. The stage battles of Diodorus abundantly justify the severe judgment of a critic not in general unfavourable to Ephorus. And the modern followers

Polyh, ril. 25.1. Cl. Macan, Hall. IV-VI, vol. ii. p. 211.

a For Thermopylas, cl. sep. and Russell, nr. 023, n. 5. For Plataea, Lenetra, and

Mantines, Hoim, History of Orecce (E.T.), m. pp. 18, 104, 129. * Polyb. sii, 28.

of Ephorus "are driven after all to pilfer from Herodotus the famous charge of the Athenians, converting it (against all the ancient evidence) into a pursuit of the beaten Persians whom the Athenians had already repulsed from their position on the hills. The great mound (Soros) which marks the tomb of the Athenians still stands to bear allent witness against them. Such a tomb would surely be placed where the dead lay thickest and the fray had been most severe. Now if the Athenians charged down from the hills before the battle, the struggle would naturally be just where the Soros stands, but if the Persians first attacked them among the hills, the centre of

the fight would be a mile away.

Lastly, the evidence for the view of the battle to be found in Nepos is of the weakest. There is not a trace of it in any other account, not even in Justin. It traverses directly some of the clearest points in Herodotus, viz. the long delay at Marathon, and the final assumption of the offensive by Miltindes. It must be regarded as a critical reconstruction, unless it can be shown to rest on some earlier authority than Ephorus. Hence Mr. Cassin (p. 83) attempts to gain support for Ephorus by discrediting Herodotus. He asserts that 'Herodotus used Alcmasonid sources for the greater part of the incidents he describes and particularly for the battle of Marathon. Whatever the other sources were that he used it is fairly certain that they were neither those of the house of the Peisestratidae nor those of the Philaidae. He then argues at length that the divergent tradition in Ephorus and Nepos came from Philaid sources transmitted through the Heprika of Dionysius of Miletus. Now there is not, and cannot be, the smallest proof either that Ephores used Dionysius or that Dionysius followed Philaid tradition. The only fragment of Dionysius extant refers to Persian history, and not even the titles or scope of his works are certain. The statements made about him rest wholly on learned conjectures made in recent times.44 I think, then, we may be spared improfitable speculation on a nebulous subject if it can be shown distinctly that Herodotus, in the life of Miltaules in general, and at Manithon in particular, clearly made use of a source favourable to Miltiades as well as of the bestile Alemaconid tradition. And I am confident that this can be done. Had Mr. Casson limited his statement to the Parian expedition it might have passed muster; it is little short of absurd when extended to the earlier life of Miltindes. Has Mr. Casson forgotten the patriotic advice said to have been given by Miltiades to the Greek tyrants at the bridge over the Danube " and the earlier history of the Philaid house given in connexion with the colonisation of the Chersonese, it and again in close connexion with the story of Marnthou itself? " Here, in particular, details are mentioned (e.g. about the family tomb) which can have had no great interest, except to the Philaid house. Again, the one strong argument

at e.p. Delberrok, Greek, the Kriegshaust, P.

⁴⁴ Cf Part, f. 32, 3; Thue, H. 34,

⁴ Cf. Sury, The Amount Greek Historians, pp 29-4, and Klin, il. 334, iii. 330 (Lebesson-

Hamp(), iv. 203 (Pridekt, etc.

⁴⁴ Eldz, iv. 137.

^{**} Thid, vi. 34-41. ** Thid, vi. 103.

against the use by Herodotus of a Philaid source, viz., his lack of information about Miltiades between the Scythian expedition and the Ionic revolt, applies with equal force to Cornelius Nepos, and against Nepos (Milt 1), we may add the charge that he has confused Miltiades, first tyrant of the Chersmese, with his greater relative and namesake the victor of Marathon. How, then, can we believe that Nepos (through Ephorus, preserves for us

Philaid traditions neglected by Herodotus?

Coming to Marathon itself, doubtless Mr. Casson (p. 83) is right in holding the defence of the Alemaconidae is to have been inspired by the house itself. But the way in which it is introduced should have warned him that Herodotus is here turning from one anthority to another, as may be seen by comparing the bald statement of the charge with the highly artificial defence." And in his account of the compargn Herodotus, in some points, emphasizes, and probably exaggerates, the part played by Miltiades, in ascribing to him the actual leadership and the winning over of Callimachus.100 Mr. Casson (p. 75) is offended because to Herodotus the hattle was a wild forforn hope of men inspired with almost supernatural courage, whereas Nopes implies that it was skilfully conducted and a trinmph of tactics. The contrast is exaggerated, but, even were it true, it proves nothing for his purpose. For as he elsewhere (p. 89) admits, 'all the battles of the Persian Wars are, if we believe Herodotus, brilliant examples of beroism and poor ones of strategy. Unless, then, it can be shown that in every instance Herodotus happened to use sources adverse to the general in command, we must look for the explanation elsewhere than in the use of a hostile tradition. It may be found in two conclusions drawn by Dr. Grundy at from his study of the whole war. In his final summing up he contrasts with Herodotus extraordinary accuracy in statements of facts (1) his lack of information as to the motives of those in command, and (2) his lack of experience such as might have enabled him to form deductions as to those motives. In fine, Herodotus produces the impression that there was a want of generalship, because he describes all battles, not Marathon only, from the point of view of the soldier in the ranks, not that of the officer in command. This and not an anti-Philaid bias is the reason that he fails to do full justice to Milliades.

And apart from this failure in military knowledge and insight there is reason to believe that Herodotus keeps closer to the Plulaid tradition of Marathon than Ephorea. Where should that tradition be found if not in the picture of Marathon in the Stoa Poikite, called after Peisianax, a relation of Cimon (Plut. Cim. 4) and doubtless built to add busine to the Philaid house! In that picture there were to be seen fighting for Athens, Militades oncouraging his men (Aesch. v. Cies. § 186), the polemarch Callimachus (Paus. i. 15, 3), Cynegirus (Plin. N.H. xxxv. 57) and Epizelus (Act. N.H. vii. 38). They all are duly found in the pages of Herodotus (vi. 114, 117).

⁴º Ct. Camon in Klio, xiv. 87; Grandy, Great Persian Par, 146, n.

^{*} Hills. vi. 121-1.

[&]quot; Ibid. vi. 115 and 121-4.

⁵⁰ Hand. at. 100, 110.

[&]quot; Great Preside War, p. 579.

but only Miltiades is mentioned by Nepes (Milt. 6, 3). The Philaidae may well have preferred to record the heroic courage inspired by Miltiades' leading, rather than the careful tactics which baffled the enemy. No picture can give the movements of troops, but I cannot doubt that the three scenes set before us by Pansanias (i. 15, 3) are in accord rather with the fierce charge regarded by Herodotus as the essence of the battle than with the cautious defence described by Nepos.

Note—I can see no reason to doubt the traditional date and origin of the Stoa Poikile and of the picture of Marathon. I should myself accept the theory of C. Robert (Herm. 1890, and Winckelmann programm. 1895) and Pointow (Stud iii 133) that the battle of Oence depicted in the Stoa had nothing to do with the capture of that town by Iphicrates circ. 392 n.c. but is to be placed in the time of the Argive-Attic war against Sparta 460-55 n.c. To me the arguments for connecting the Argive memorial of Oence at Delphi (Paus x. 10, 3) with that war seem convincing, but such questions of apigraphy and sculpture must be left to experts. Even if their verdict be adverse and I am constrained to date the fight at Oence about 392 n.c. and to identify the sculptor of the memorial at Delphi with the Hypatodorus dated by Pliny (N.H. xxxiv. 50) about 370. I should still maintain that only the picture of Oence should be brought down to the fourth century, while the Stoa itself and the more famous pictures in it belong to the middle of the fifth century.

The fight with the Amazons is definitely ascribed to Micon and approximately dated by its mention in Aristophanes (Lysist, 678 with the scholia), the other pictures are by the general consensus of our authorities ascribed

to Polygnotus and his school.

The doubt whether Panaenus (Piiu, N.H. xxxiv, 57, Paus, v. 11, 6) or Micon (Arrim, Alex, vii. 13, 5; Aclian, N.H. vii. 38) was the painter of the battle of Marathon is for our purpose negligible. All I contend is that the Ston itself, and the picture of Marathon it contained should be regarded as a memorial erected by a connexion of Miltiades, intended to glorify the Philaid house in the person of its greatest member.

I turn to the expedition against Pares. Here the case for Ephorus and against Herodotus is undoubtedly stronger, so that many critics prefer the later historian. Herodotus, though his account has one of the marks of genume tradition, the definite length of time (twenty-six days) assigned to the expedition, discredite himself by two characteristic failings: (1) his ascription of a great event to a petty personal motive, the rancour of Miltiades (2) his preference for a version of the tale (the Parian) attributing the result to divine interference. Further he may fairly be suspected of

M.g. Dr. Macan, Phil. IV-VI, vol. is.
 Phil. vi. 133.
 Phil. vi. 133.
 Phil. vi. 133.

giving as the universally accepted Pan-Helienic account what was in fact, the version prevalent at Athens, hostile to Miltiades and possibly spread abroad by his Alcafaconid opponents. On the other hand, there is here no doubt that Nepos is following Ephorus closely (cf. sup. p. 48) so that his account gains whatever weight we attach to the authority of that historian. It is also clearly free from the prejudices which bias Herodotus, whether

religious or political.

In fine, Ephorus gives us what is on the face of it the more probable story of the Parian expedition. For the filibustering attack on Paros, inspired by the private spite of Miltiades there is substituted a general commission to punish islands that had medized, followed by the forcible conquest of several and by the submission of others. A public policy of establishing Athenian power in the Cyclades replaces the petry personal motive alleged in Herodotus. Yet this general commission against the medizing islanders and its partial execution may very possibly be no more than an inference from the pretext given in Herodotus (vi. 133). Again the concealment of the object of the expedition ascribed to Miltiades by Herodotus (vi. 132), which has offended the critics, would after all be the only way of preventing its betrayal to the Parians. and might be absolutely essential to the success of the enterprise.

On the other hand, a general project of empire over the Cyclades seems over bold at a time when Athens was quite unequal to the task of protecting her own shores against the Persian and cannot yet meet Aegina on equal terms in the Saronic gull. The precedent of Pisistratus has been thought to justify it. But it would appear that while that great tyrant adopted the most vigorous measures for securing the Hellespont is and the essential cornroute to the Euxino, in the Aegean he was content with a policy of peaceful penetration through the cultivation of Ionic sentiment is and an alliance with

Lygdamis of Naxos. 81

And it is strange to find Mr. Casson (p. 71) supporting his view that the control of the Cyclades was the aim of the Parian expedition by appealing to an earlier statement in Nepos (Milt. 2, 5) that Miltiades, at the time of his occupation of Lemmos, 'pari felicitate ceteras manlas, quae Cyclades nominantur, sub Athenienshum redegit potestatem.' What trace is there elsewhere of this alleged Cycladic dominion before Marathon? Surely when Datis sailed across the Aegean to attack Athens, some mention of the fact that the islands on which he landed were already Athenian must have survived. Again, Lemmos and Imbres have everything to do with the true goal of Miltiades, the Chersonese, as has been forcibly brought home to us by our own operations in Gallipoli, they are utterly separate from the Cyclades, which can of course be far more easily reached from Attica itself. The identification of the islands, other than Lemmos, conquered by Miltiades.

E Corn. Nep. Milt. 7. L.

F Cf. the case of Naxon, Hdt. v. 23 f.

^{*} Hdt. 91, 80, 91

⁵ Mid. v. 96 fr; vs. 36 f.

⁴⁰ Mind 1, 64.

^{41 755}d. L 61.

before 490 s.c., with the Cyclades would seem to be a gross geographical blunder. If it was made by Ephorus, as well as by Nepos. it so far discredits his account of Miltindes later successes in that region. Lastly, there is nothing to show that any of these islands were dependent on Athens 490-80 B.C. No doubt it is possible that some submitted for the moment and at once rebelled again after the failure of Miltiades at Parcs: Nevertheless it remains true that these allegations of a wide policy of conquest and of partial success in carrying it out are discredited by the absence of any subsequent trace of their reality. In fine, if we may fairly charge Herodotus with degrading a serious attack on Pares into a private vendetta, we must recognise also that Ephorus has been led to exaggerate its scope and importance. His conception of an Athenian empire over the Aegean islands. using the Cyclades as a bulwark against the assault of a Persian armada, is redelent of the period when the grand fleet created by Themistocles controlled the sens. Not even in 480 B.C., after its creation, did the Greeks venture out into the Augean to meet Xerxes, since to face in open waters a fleet superior both in number and in quality " would have been to court defaut." How much less can the Athenian navy of fifty or seventy ships " have dreamed of going out to meet the thousand galleys of the Great King !

Of the two accounts given of the failure to take Pares neither is really satisfactory. The Parian story of Herodotus (vi. 134 f.) is permented with his theological conceptions of vispos and requents, and marked by a hias against Milliades Ephoras substitutes a hasty and mistaken inference (made apparently by both besieged and besiegers) that an accidental fire on Myconus was a signal that Datis was coming to the relief of the island.65 The source of this story is probably an explanation of the provincial phrise dvamapidZer. Dr. E. Meyor " has briefly shown how foud Ephorna was of using such proverbs and how untrustworthy is the information drawn from them. In this case it seems fairly clear that the expedition of Millindes must be placed in 489 B.C. (spring 2), since Marathon was probably fought in September, 490 s.c. and there was an interval after the battle during which Militiades enjoyed his well-earned renown. 87 Now in 480 R.C. Datis can hardly have been supposed to be lungering in the neighbourhood of Paros. Further, the location of the fire on Mycomus may well be a mere inference from the story of Datis' stay there in Herodotus (vi. 118), while the 'in continenti' of Nepos is a sheer impossibility due to another of his gross geographical blunders. We cannot, it would seem, discover from either author the true reason for the failure of the Parian expedition. Here, as elsewhere, Ephorns gives us little more than a plausible but shallow attempt to rationalize the biased and defective tradition preserved in Herodotus.

Lastly, when we come to consider the trial and death of Miltiades we

[&]quot; Hill, vm. 10, 60, orc.

S Pare Dr. H. Delbrick, Genderhie der Kriegebinsel, P. 75, 76.

[&]quot; Hill vi 89, 92, 132

So Ephorus, fr. 157. Mulley, F. H.O. L.

^{203.} Nepon (Mitt. 7, 3) absurdly substitutes for Myconus 'in continently' and more prodently for Datis 'olassisrii regil.'

^{*} Forschungen zur alten Grachicher, s. 19.

[#] Hdt. vt 132

find the shaple unreative of Herodotus grossly preverted by Ephorus. It is true that the charge brought against him of deceiving the people (anary) is somewhat vague, but it is at least as probable as the treasonable taking of bribes alleged in Nepos (Milt 7, 5) and Justin (ii. 15, 19). And Nepos discredits himself himself by naming, as the chief defender of Miltindes, his brother Susageras, 44 who had died long before [Hdt. vi. 34]. Nor does the alleged motivo for his condomnation; fear of tyranny, seem to be anything more than a trite moral drawn by Nepos (Milt. 8), unless it is a misplaced recollection of the earlier charge brought against Militades as soon as he was finally driven from the Chersonese (Hdt. vi. 104). In any case we must keep to the bare facts given us in Herodotus (vi. 136) that Millandes died soon after his trial, and that Cimon paid his fine. The way in which this simple statement was decked out with thetoric and scandal does little credit to Enhorus, even though he be not the worst offender. Yet we cannot but attribute the origin of the story to Ephorus when we find Cornelius Nepus (Cimon, 1) supported in the main by Diodorns (x. fr. 30, 32) and by a direct if scanty quotation from Ephorus in Schol. Arist. p. 515 (Dind.). And the story is that first Miltiades and then Cimon was cast into prison'till be should pay the fine, and that the money was eventually procured either by Cimon's marriage to a rich wife, so by the marriage of his sister Elpinice to Callias, the wealthiest man in Athens " In all this there is plainly to be seen, first, a desire to heighten the pathos of Miltiades' end, and accordly, a tendency to accept in some form or other the scandalons stories current about Cimon and his sisten 21. We may safely dismiss these later accretions as unhistorical, indeed they are only worthy of mention because they throw further light on the untrustworthiness of Ephorus and are a further proof that we should not follow Dr. Mever 72 in supposing all the scandalous stories found in late biographers to be derived from a biographical tradition. Besides the instances already given the account given by Ephorus of the origin of the Pelopounesian war 78 proves to demonstration that the historians of the fourth century were tarred with the same brush as the biographers.

W. W. How.

The reading is doubtful, but the context makes at fairly certain that Nepos is referring to Strangurzs (Mat. 7, 6).

So Dissiorus, x. 32, and apparently Episorus (Schol, Arist, 315). Müller, P. H. G. to 669.

[&]quot; So Corn Neps Free 1, 3, 4

H.C. E. Muyer. Forechusian any after Geochechte, in 25 f.

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⁷⁸ Preserved in Diodorus, vii. 38-40, and by him asserbed to Ephorus. Cf. E. Mayer, up. est. pp. 329-32.

THE NORTH GREEK AFFILIATIONS OF CERTAIN GROUPS OF TROJAN NAMES.

In the Quarterly Review for July, 1910, Professor J. B. Bury writes as

follows:-The Trojans were doubtless early immigrants from the Balkan pennaula. How comes it that their rulers have Greek names? The name of Priam himself is not indeed obviously Greek, but in its Acolic form Perramos it may well be so; and Priam's father was Laumedon Hester is Greek as Nester. and was in later time the name of a prince of Chios. Paris has the second name of Alexandros; and the natural assumption is that "Paris" was a Phrygian name given him by his Phrygian mother, Hecuba. The names of the other children of Priam who come into the story-Cassandra, Helenus, Deinhobus, etc - are Greek. We have to choose between two inferences. Either the burds deliberately substituted Greek for foreign names, or the rulers of the Troad were Greek. The second alternative, startling as it may appear, seems to us to accord with other evidence and to afford the most satisfactory explanation of the data of the Hind. If there had been any great or radical distinction between the Achaean and Trojan civilizations it is difficult to see how these could have been completely ignored, or successfully concealed by poets who gave such a faithful representation of the topography and evidently were fully acquainted with the character and resources of the enemy. ... Is there any good reason to resist the simplest and most logical conclusion that Greeks had conquered the Troes and settled in the Troad, and that Mycenaean Troy was a Greek outpost. Further on Professor Bury writes: 'The Achieuns had reduced the great Greek states of the peninsula, in attacking Troy they go on to reduce a great Greek state which had established riself in Asia Minor. Can we conjecture whence the Greek founders of Troy came ! Was it possibly from Attica! Professor Bury refers to the appearance of the Attic Poseidon, Erichthonies, in the Trojan genealogy and to the legend that Poseidon halped to build the walls of Troy as possible support for his theory.

The connexion of Troy with the Balkans and the Dannbe has been pointed out by a number of writers in recent years and I have discussed some aspects of this connexion in several papers. I wish to present a point which so far as I know has not been arged before and one which seems to me to strengthen the northern claim as against that of Atture. This is the

coincidence between the typical Trojan names and those which are found most commonly in the ruling tribes of the northern part of the Balkan peninsula. The fact that Priam's son Paris has the Greek name of Alexander has attracted universal attention and only second to this in interest has been the fact that Priam's daughter Cassandra is the feminine of a well known name, Cassander, in the Macedonian royal line. (See Hoffmann, Makedonen, 208-209.) In his study of the Macedonians Hoffmann shows (p. 119) that Wilamowitz has been unfortunate in his choice of names used to illustrate his theory that the royal house of Macedonian to the eagerness for Greek culture adopted Greek heroic names in order to make connexions with the early Greek tradition. Hoffmann rightly points out that the son of Fram was not a Hallene in the eyes of Macedonians any more than in those of Grocks and moreover that the names of Alexander and Cassander could not possibly have been given to the Macedonian heirs-apparent in remembrance of the Weiberheld' Paris or the Unglücksseherin' Cassandra.

I quote Hoffmann further in order to use his argument to strengthen my own thesis.—'It is precisely the names of the great (Grock) heroes of Homer that are rare in the Macedonian families and this should give us purse. If our convincing evidence testifies that the Macedonians were Greeks, why should not the names common with them which also appear in Greek heroic legend have been true and autochthonous Macedonian names?' (p. 20).

I hope to show in the following examination of Trojan names that the same names or names of the same type prevail in and are characteristic of the northern parts of Greece, which are in immediate contact with the

Danubian region and trade-route

The compounds Alexandros, Cassandra, Lasandros, Peisandros, Alkandros (a Lycian ally) names of Trojans in the Riad are by forms of Alexanor, Kassanor, Lusanor, Peisanor, etc. (Fick-Beehtel, pp. 58 and 60) Such names are especially characteristic of Macedon and North Greece. (See Hoffmann and Fick-Bechtel, loc. cit.) In the Read the great majority of names of this type belong to Trojans and to chieftains, or, in one instance, to a priest's son. whose ancestry belongs to the north directly or in immediately traceable connexion. The one exception is Hypsonor, son of Hippasos, who appears as a Greek in one of those count lists of the slain in which Homer disregards distinctions made elsewhere. Hypsonor in II, 5, 76 is a Trojan priest of Skanminder, to the account of whose death several lines are given, and the sons of Hippasos in the ejeventh book (428) are Trojans, Charops and Sokos. The names of this formation which are consistently Trojan are Agenor, Antenor, Bienor, Deisenor, Hyperenor, Peisenor. Hypsenor is also Trojan when the name is of any real significance, as already noted. There remain in the Riad Agapenor, Elephonor, Prothocnor, and Euchenor. Of these tha first. Agapener, is lord of the Areadiana, who dwell about the tomb of Appytos. Wilamowitz (Phil. Untersuchungen, ix. 50 ft.) has shown the connexion of this tribe with Thessaly, and I have in other papers (T.A.P.A. 1915, 121-128; C.J. 1917, 587-592) called attention to them as sharing the epithot 'close-lighting' with the Dardanians, the Mysians in Europe, and the Myrmidons Elephenor belongs to the royal family of the tribe of Abantes in Euboca. Their northern method of fighting is noted by Plutarch These is I. 5) and in the Catalogue their fashion of dressing their hair is mentioned in a way recalling the Thracian and Achaean mode. We learn from Aristotle, quoted by Strabo, that they were a Thracian tribe that had been resident in Phonis before coming to Euboca (Strabo, x. 445; Herodotus, i. 146 x). We evidently have to do with persistent racial characteristics surviving among immigrants. The next mane of this type is that of Prothocnor, who is mentioned in the Catalogue as leader of the Bocotians. His death occurs in the fourteenth book. He is mentioned in the catalogue along with Arkesilaes and Klonics, two names of markedly Macedonian character (see Hoffmann's list of Macedonian manes, pp. 278 ff.).

There is one Boectian patronymic of this type, Alegenorides, belonging to Promachos in 14, 503. There remains the name Euchenor of Ω. 13, 663. He is the son of the seer Polyides, about whom Sophoeles wrote his play entitled Mairrers η Πολύτδος, and is of the stock of Melampus, who, according to the form of the legend preserved by Pindar and Diodorus, came from

Thessaly.

Of the names of this formation then seven are Trojan, one is given to a leader of the Thracian Abantes, an immigrant tribe with northern characteristics in the island of Euboca, one is a Corinthian whose family comes from Thessaly, one is a leader of the close-fighting Arcadians, mother immigration from Thessaly. There is left but one, Hypsenor, who is really Trojan when Homer stops to think, but dies in a casual list of Greeke, a list marked with the carelessness characteristic of books in which the great battles occur.

Another group of names which is almost exclusively Trojan are those ending in damas. They are Adamas, Amphidamas, Eurydamas, Chersidamas, Hippodamas, Luodamas, Poulydamas. These have but one exception to their overwhelmingly Trojan churacter, namely Amphidamas, which in the tenth book, that book of so many exceptions, is applied to a Cytherean, while in the twenty-third (87) the name is given to a north Greek from Opus, father of the boy slain by Patrocius. These names again show Dardanian connexions and often belong to a priest or mantis. The most celebrated of these is the great Dardanian seer, Poulydamas. There is also Eurydamas. the Dreamer, and Iphidomas, the son of Theano the priestess, and brought up in Three. These names do not appear in the royal house of Maccelon, as the -anar, androw group does, but they are also characteristic of morth Greece. The name Polydamas belongs to Thessalian byrants of Pherae in historical times and a Polydamas of Pharsalos was envoy to Sparia in 375 B.C. Xemphon describes him as hospitable and magnificent in true Thessalian manner (Hellen, 6, 1, 3). Another Poulydamas of Skotussa in Thesealy was victor at Olympia in the pancration in 408 n.c. His statue was made for Olympia by Lysippus and logend grew rapidly about his name. (Sau Frazer, Paus. 4: 17 ff.)

I should judge the name Polydamus to be like Alexandres. Alexanor, Amynandres, Amynas Alexas originally a name for a northern deity; afterwards given to kingly and priestly personages. The names Landameia, Eurydameia, Eurydice, and Eurykreousa, have the same history according to Gruppe and other writers on Greek religion. The place names Antandros and Skamandros (the river) belong here.

Another group of names which is prevailingly Trojan is that in which Lao-forms the first member. These are Laodamas, Laokoun (not in Riad), Laodika Laomedon, Laodikos (son of Antenor, in R. 4-87, but commade of Antilochos in 17, 699), Laogonos (16, 604; 20, 460) son of the priest of Idaeam Zens in the sixteenth book and son of Bias in the twentieth, and Laodike, daughter of Priam, who bears a name famous in the Seleucid family, Laodameia is the Thessalian hereine and with the second of these names, Laodikos, forms the exception to the rule that these compounds in the Riad are Trojan names. There is a Leiokritos, son of Arisbas, whose name appears in the Ionicized form Δειώκριτος and is believed by Hoffmann to come from λείο-, not λαός.

The names in which -lass forms the last part vary between Greek and Trojan, Menelaos being Greek, Erylaos Trojan, Agelaos Trojan in 8, 257 and Greek in a miscellaneous list of Greeks slain in 11, 203, in which appear others who elsewhere are Trojan, i.e., Opheltes, Dolops, and Autonoos. Arkesilaos, a strongly Macedonian name, is leader of the Bocotians with two others, Prothogner and Klonios.

The frequency of the tribal names in rops among the north Greek stocks is noted by Hoffmann (op. cit. p. 131), citing Eduard Moyer and Fick. He quotes Elfopes, Dryupes, Dolopes, Deuropes, the town in Macedon Douriopes. With these names be connects the name of Aeropes, the grandfather of Amyntas. Of this type in the Hind are the Trojan names Dryops (20, 455), Charops, son of Hippuses (11, 426), Merops (2, 831), Enops (16, 401; 14, 445), Phaenops (5, 152; 17, 312). This last name is used of two or more people, always Trojans. Dolopion is priest of Skamander in 5, 77 and father of Eurydamas. Apollo takes the shape of Phaenops, son of Asios, in 17, 583, and of Asios, son of Dymas, in 16, 718. The Charops of the Catalogue 672, husband of Aglaia and father of Nireus, is not a Trojan: Dolops is Greek in the miscellaneous list in 11, 303.

Among the single names that take us to Macedon is that of Argeades Polymetos, an unknown Trojan stain (16, 416) by Patrocius. His name is the one by which the members of the royal family of Macedon, the Argeadae, designated themselves.

Hoffmann comments on the specially Macedonian character of the ending tor. The name Amyntor is noted by him as a true Macedonian formation. Hector is of course of this type as well as Alastor and Damastor, the first of which denotes a Trojan in 5,677 and in patronymic form is used with Tros in 20,463, though elsewhere used of a Greek, while the second is used in patronymic form of a Trojan in 16,416. Well known mames among the Greeks of this type are Nester and Kustor. In 16,401 Thestor, son of Enops, is a Trojan, but the epithet Thestorides belongs to Kalchas.

The ending -koon, which appears as a single name as son of Antanov.in

11. 249 and 256, appears to have Thracian connexions. Koon is the son of Theano and is killed, in the eleventh book, defending his brother Iphidamas, who was brought up in the home of their Thracian grandmother. His wounding of Agamemnon at this time is referred to again in 19. 52. Demokoon is a bastard son of Priam, who comes from Abydos. His swift horses are mentioned. Hippokoon in 10. 518 is a councillor of the Thracians and a noble nephew of Rhesos. Detkoon in 5. 534 is in the company of Acneas and is called the son of Pergasos; a Thracian-sounding name. He is said to have been honoured by the Trojans as much as the sons of Priam, because he was swift to light among the first. The priest Laokoon, the best-known bearer of this type of name, is not mentioned by Homer. He is called by later writers a brother of Antenor, the Dardaman leader, or of Anchieses.

Usener (Rh. Mus. 1896, 354) regards these names as compounded with the verb rock, to hear, and translates Hippokoon as 'Der Rosse wartend.' I think this unlikely, and would suggest that the name may possibly have to do with the word ravers found in Greek inscriptions in Lydia and discussed by D. M. Robinson in the American Journal of Philology for 1913, pages 362 following. Two glosses of Hesychias may bring these names in connexion with the god Koas (see A.J.A. 1913, p. 366), i.e. Εὐρικόωσα). Deikoon is mentioned as son of Pergasas, a name which would have the same meaning as Priamos according to the etymology suggested for Priamos on page 47 of the American Journal of Archaeology for 1912. I quote as follows from the article on the first instalment of Greek inscriptions from Sardes, published by Professors Butler and Robinson:—'Bria or Berga occurs frequently in the Phrygo-Macedonian languages, and there was a cognate form prim or pergo, the first in Priamos and perhaps in Priene, the latter in

Πέργαμον and πύργος.

These groups of names, which are so overwholmingly Trojan in Homer's use of them, which also have such a footbold in the legend and history of the Balkan area, confirm other evidence which points to that part of Europe from Epirus to Thessaly and the countries along the Danube and the Vardar, which are known by the archaeological remains to have been in contact with Greece, as the European home of the Trojans. Professor Bury rests his argument on the genealogy in the twentieth book and on the later activities of Athens in the Troad. For the Phrygo-Macedonian connexion we have the indisputable tradition of Dardamis and his migration and that of the close-fighting Dardanians and their neighbours, the metal-working Paconians. Dr. Walter Leaf says in Homer and History (p. 72 f.): The Phrygian language was closely skin to the Greek and the two nations had doubtless come down together or nearly together from the Danube valley. The Dardanians had taken the south-eastern road, while the Achaeans had passed on south-westwards. Hoffmann argues that the Macedonians were Greeks. Kretschmer, with the same view as that of Leaf, states the case more justly than Hoffmann. He says (Eunleitung, p. 288) that we should regard

the Macedonians as a people closely related with the Greeks, who if they had turned toward the south could have become Hallenic no less than the Dorians, Thessalians, and Bocotians. But they spread out toward the north and absorbed a number of non-Greek races and so became alienated from the Hellenic race as it developed within the southern peninsula, and therefore they were denied the name Hellenic. The names of the northern area appear in Sparta especially.

The most interesting group of northern names consists of those which are obviously connected with deities. No name is more firmly rooted in Macedon, Epirps, and Thessaly than Alexander. The by-form of this, Alexanor, is a deity worshipped in connexion with Asklopios and in the form Alexenor is quoted by Hesychius from Artstophanes as an epithet of Asklepies. Another verb of apotropaic meaning, i.e., autres, gives the names Amyntor, Amyntas, and Amynandros in Macedon, Thessaly, and Epirus, while a tribe Amyntae is quoted as living is Thesprotia. In Athens the Amyneion and the god Amynos worshipped with Asklepios testify to the religious value of the word. The great Thessalian family of Alexadae have their name from Alexas from the apotropaic verb aleew, and I have discussed the verb aleew in Classical Philidopy for June, 1918, in considering the derivation of the word d'Ascrup. Names of this sort are appropriate to the time when, as Halliday says in his book on Greek Divination, the connexion between mantosuné and royalty was close. I quote him on this subject :- Indeed the kings of the legendary past were mantels and they possessed the other functions of that office no less than the power of cleansing from blood" (p. 68); . . . And like Salmonous and Afrems the mantels were connected with the weather, or the sun . . . The parentage of Medea and Circe shows the children of the sun as magicians and prophets (p. 70).

Herodotus tells a story of the founding of the kingdom of Macedom by a hit of sun-magic on the part of Perdiceus, the little shepherd who became the founder of the Macedonian house of kings. It is probable that the name of the Sun Elektor comes from the verb (Alexa, which has also produced the name for that possible annotes, \$\tilde{\texts}\tilde{\te

These sacred and royal names, Alexandres, Cassandra, Eurydamas. Poulydamas, and others, which could be shown to have the same psychological meaning in origin, are characteristic of the Balkan area as well as of Troy. I believe that they indicate that Homer preserved a genuine tradition of Trojan names and that the coincidence with north Greek names, especially of the Macedonian type, cannot be accidental, but adds weight to the other evidence for the Danubian provenance of the Trojans, or at least of the Dardanian inhabitants of Troy during the splendid time of the sixth stratum and at the time of the Trojan war.

I have not given a complete list of all the distinctively Trojan names, but rest my case chiefly on the names of the Antenor-Antandres, Alexenor-Alexandres, etc., type, together with those of the Poulydamas type and those which show the ending -ops. I attach importance also to the appearance of the name Argendes among the Trojans.

The names are interesting, not only from the historical, but also from the religious aspect.

The northern gentile names Dardanus and Paconides are used naturally

by Homer for individuals on the Trojan side.

The great name of Hector does not appear in the royal house or among the noble families of Macedon. A Macedonian of that name, 'Parmenionis filius, in paneis Alexandro carus,' is mentioned in Curtius 4, 8, 7; 6, 9, 27 (Hoffmann, op. cit. 207). An intentional choice of the name of the weak Alexander-Paris cannot be imputed to the Macedonians, and the great frequency of the name of Hector's brother, while his own does not appear, must be due to the strong religious meaning (protector) which is seen in Alexandros, Amyntas, and Alexas, epithets attached in one form or another to many deities of bealing whose worship originates in the Balkan and Danubian region.

GRACE HARRIET MACURDY.

A BRONZE HEAD OF THE FIFTH CENTURY BC.

[PLATE L]

1.

A GENEROUS gift to the Ashmolean Museum, from Mr. E. P. Warren, has not only allowed the art-lovers of Oxford to enjoy an exquisite work of art, but has also enabled students of Greek sculpture to attain to a fuller knowledge of the style and technique of the great schools of the fifth century mc. Our head appears to have been broken off a statue; unfortunately it is not complete. And as it had to be put together and bent into shape, any measurements will be of little value. I may however record some of them.

					Mu,	Inches.
Height fre	***	laks.	118	41		
Circumference at band			412	an i	550	211
Length of	nose	1000	910	109.7	57	21
jii.	mouth	47)	718	lands.	47	11
Mr.	eye	- g-w	a kee	79.1	33	11
1	left car	- 199	4 4 9	-144	52	277
Height of	forchead	300	#1°F	9.00	55	21
Thickness of bronze, about			177	910	1.0	4

Annuage is, most of the hair, both sars the left eye, the nose, the upper lip. I have indicated in Fig. I what parts are antique. Generally speaking, the right side of the face, and the lower lip, the chin and the neck are modern. The head came from the second portion of the Forman Collection, which at the sale, unlike the first portion, was very indifferently catalogued. It consisted of nine bronze fragments, fastened to a background of plaster. The thickness of the bronze was about § of an inch. The fragments were reset on a stone core by Mr. F. Bowcher, and the missing parts replaced in beeswax by him, under the direction of Mr. E. P. Warren and Mr. J. Marshall Mr. Bowcher had specially before him a cast of the Diadumenus head of Dresden (below, Fig. 3). Whence the fragments originally came cannot be ascertained: it is probable that they may have come from some important exervation in Greece, as they could easily have been concealed by workmen.

The restoration is very successful; and as it is carried out in wax only,

new parts can never be mistaken for old.

The head represents, in life size, a boy who was no doubt a victor in one of the great athletic festivals of Greece. As the ears are undamaged, he was probably not a boxer or paneratinst; perhaps a runner or pentathles. He is represented as binding his hair with the fillet of victory. This



For I, -RESTORAT ONS OF BROWN HEAD.

restoration is certain in view of the character of the head-band and the likeness to other Duddmenus heads. Mr. Bowcher, in his restoration, has taken this view, and has carried the fillet further; but of course this restoration furnishes no evidence. The eyes, as is usual in bronze statues, were filled in in paste.

The secret of the charm which clings to the head, and which every one who examines it seems to feel, is the extremely pleasing and deficate character of the curls, the eye and the ear. The process by which it was produced is beyond doubt that known as the circ perdue process. The wax model was enclosed both within and without by moulds of terra corta or plaster; the wax was then melted out and bronze poured in in its place; after which the moulds were removed. As Mr. Bowcher has been able exactly to imitate in wax the lines of the hair, the eye and so forth, in his restoration we need not suppose that much sugraving of the surface after the casting was necessary, but the whole was gone over with the tool. The casting of the almost detached curls on the forehead must have been difficult.

But no doubt the most striking feature of the head is the head-band, which is adorned with a line of palmettes, like the head-band of Hera, on the coins of Elis, Chossas and Argos. The device was inlaid in silver but the silver has disappeared, except at a few points. The pattern was traced by an engraving tool; and it can be clearly traced, because the silver saved from oxidation the bronze under it, while the rest of the bronze surface suffered from decay. The nearest parallel to this decoration is offered by that of the Delphic Charioteer; but the parallel is not close. The Charioteer's fillet is adorned with a unacander-pattern, deeply cut. The bronze head at Munich, to be later mantioned, also has had inlays of silver in the fillet.

The curls by the cars and on the temples are like those of the Delphie Charioteer in the same places, curling boldly, almost detached, and reminding us of a time when such curls were made separately of bronze and soldered on.

Few bronze statues and life-size heads of the fifth century have come down to us. The works with which our head may best be compared are the well known Idelino of Florence, and the beautiful boy's head of the Louvre from Beneventum. Both of these are Greek originals, and both have justly won great admiration. Yet if we compare the new head with them, point by point, we shall find that it greatly surpasses them. Let us consider some of the details.

The upper cyclid overlaps the lower at the outer corner of the cyc. This custom of representation was coming in in the middle of the fifth century; after which it is usual. But as our bronze was broken neross the cyc, the putting together of the two lids is smewhat arbitrary.

The nose is short, and the end of it rounded .One might suppose that it had been somewhat forced out of shape, but that it is like other noses of the mid-fifth century: the small and narrow nostrils, forming a strong angle one with another, closely resemble those of the Delphie Charioteer. The upper lip is notably short.

The ears are carefully formed: the cartilage just before the opening:

^{*} Compare P. A. Gardnar, Handbook of Collegeon, Med. of to Sculpt gr., vol. 15.
Greek Sculpture, ed. 2, p. 25

is decidedly prominent; this is not the case in the Louvre head, and the cartilage of the Idolino is notably flat; in the Nelson head, which is in character nearer to bronze than other heads of the class, we have the same prominence of cartilage. Modern scientific art-criticism attaches, as is well-known, especial importance to the form of the ear in painting and sculpture, as a characteristic trait of the artist.

The upper lip has a marked ridge; no doubt the red of the lip was

plated with silver or gold.



Fig. 2.- Top or HEAD

A noted feature of the hair is its arrangement in curled locks, arranged in a circle about a point on the top of the back of the head (Fig. 3). The nearest circle of curls is something like a star-fish in form. Although in case of our head this nearest circle is partly restored, yet enough survives to show the arrangement in the restoration to be correct. The part restored is darker in colour.

I have tried to compare various fifth century heads with our bronze in this respect. The comparison was not easy, because it has not been the custom to represent in illustrations the tops of heads. I had therefore to trust to casts, the number of which was limited.

The star-fish arrangement of hair, if I may so call it for brevity, appears in rudimentary form on the head of the bronze charioteer of Delphi-although there the raisef is very low, and the carls are rather engraved than standing out. It is also discermible in the head of the so-called Heroic King' at Munich, whom I believe to be Themistocles. It is fully developed and dominant, not only in the case of the two above-mentioned



Free 2- Waksel Hash or Durappy

bronzes, but in the Cassel head of the Diadumenus, and the Vaison statue of that type, in the Nelson athlete head, the boy athlete of Dresden, and other heads of Polycleitan type; but in marble statues of the class, the hair is seldom carefully copied; thus in the heads of the Farnese Diadumenus and that from Delos, one cannot trace the arrangement of the hair quite satisfactorily. In fact the tracking of a technical detail of this kind from

^{*} Corolla Numissadica, p. 100.

^{*} J.H.S. 1808, Pt. XL

^{*} Furtwangler, Masterpover, p. 286.

figure to figure soon shows one how careless and untrustworthy are the

copies of fine Greek originals made for the Roman market.

Certainly the whole way of representing the hair, which is fairly homogeneous in the whole class of fifth century works of which I have spoken, is entirely changed in the statues of the great artists of the fourth century, both Attic and Argive. In such statues as the Hermes of Praxiteles the Eubuleus, the Agias, the bronze statues of men from Anti-Cythem and Ephesus, the hair appears as separate locks standing out from the head, not as strands lying in relief on the surface of the head.

There exists a considerable series of works in marble which in the arrangement of the hair and in the head-band so closely resemble our head that we must clearly assign it to be some group. The best of these are a Diadumenes head in Dresden (Fig. 3) which is of very detailed and accurate work, and one in the British Museum, less well preserved. Another head, of the same class but less carefully finished, is that in Cassel. Furtwingler mentions other inferior heads of the same class. They all repeat in essentials the head of the statue from Vaison, which has long been regarded as a Roman copy, though a poor one of the Diadumenus of Polycleitus. This gives us a fixed point from which to start; and establishes a probability that our head is in type Polycleitan.

That this arrangement of the hair is peculiar to to the Polycleitan group; I am not in a position to say. But so far as I have been able to observe, it does not occur in statues distinctly Atric, such as the boy's heads in the Acropolis Museum Nos 689 and 698 of Dickins' Catalogue. Both of these however are decidedly carlier than the new head. Nor does it exactly occur in the Massimi head of Myron's Discobolus, nor in the very beautiful boy's head in bronze at Munich's which is accepted as a fifth century original, though at uncertain school; and which dates from the latter

part of that centmy.

11

It is an interesting study in archaeological method to trace from decade to decade the gradual discovery of the works of the Polycleitan school. The discovery began with the identification by Friederichs in a figure of heroic size from Pompeil, now at Naples, representing a sturdy youth a Roman copy of the Doryphorus or spear-bearer of Polycleitus mentioned by Pliny. Soon afterwards the Diadomenos of Polycleitus, again mentioned by Pliny, a youth binding his head with the fillet of victory, was also identified in the figure from Vaison, the attitude and bodily forms of which are almost

Partwangler, Musterpaces, Pls. X. XI., 1895, Pls. XI. XII.
p. 240
1 Cat. Br. Mus. No. 2729; Revue Archest. Hansar in Rom. Mathed. x. 103.

identical with those of the Naples Doryphorus. A replica of this figure, of Hellenistic work, has come to light at Doles.

A careful study of some of the bases of statues still extant at Olympia. and bearing on the top the marks of the feet of the figures upon them, has enabled Professor Furtwangler to go a step further. These marks determine the attitude of the statue: Furtwangler found in our Museums several figures whose attitudes corresponded; and as their heads were of the type of the Doryphorus head, he identified them as Roman copies of the Olympia figures, or at all events as kindred to them. These copies represent in some cases victorious boy athletes, and about some of them there is an undoubted charm, especially about such statues as the Dresden, the Barracco and the Westmacott figures. Plato tells us of the young Theactetus that he was not beautiful in feature, but he was brave, intelligent and modest, and carnest in the performance of duty. In the Clouds of Aristophanes we read of a class of young men who are models of albox, and in all things opposite to the forward and flashy youths of fashion. Such are the youths supresented by Polycleitus, only that their outward form corresponds better than in the case of Theaeterus to the beauty of the soul within,

An anatomist will hold that the development of the bodies of those youths is far too mature for their ago; but we must remember that under the sun of Greece and in the constant exercises of the palaestra the male body would develop at a far earlier time of life than in our colder climate and under our more sedentary habits. The body of a Greek boy was not white, but red, through exposure to the air, and far nearer to the simplicity

of primitive toan.

The identification of these youths, scattered through the museums of Europe, has tended greatly to raise our appreciation of the master. So long as we had only the Roman copies of the Doryphorus and Diadumenus to go by, it was not easy to make a modern eye, at all events, satisfied as to his artistic supremacy. We felt these figures to be heavy and somewhat dall; and it was very probably in view of them that Pliny repeats the criticism, no doubt borrowed from some Greek authority, that the athletes of Polycleitus were too square made and too monotonous in type. In the Roman copies they lose the charm of exquisite finish of detail which the originals doubtless possessed, and the Idelino in particular suggests that the solidity of the two canonic figures was by no means an invariable character of Polycleitan athletes.

But Furtwangler did not stop at that point; he want on without adequate data, to fix the dates of the Polycleitan statues of athletes, and in so doing failed. He assigned the statue of the athlete Cyniscus, the basis of which was found at Olympia, to a.c. 440, and the statue of Pythocles of which also the basis was found, to a.c. 430. But we now have unimpeachable authority, in the popyrus published by Grenfoll and Hunt, and commented by Robert, as to the dates of the victories of these two

[·] Partwagler, Masterpasses, pp. 259-208.

to Enbert in Herman, 1900, p. 141

athletes, on which occasions, no doubt, their statues were set up. The dates in the papyrus are, for Cymiseus B.C. 460, for Pythocles 452: Furt-wängler's dating is thus upset; and the floruit of Polycleitus must be thrown back.

We must not, however overlook certain difficulties which beset the attribution of our head to the Polycleitan school. It has long ago been observed that the head of the Diadumenus generally given to Polycleitus is of quite a different type from the head of the Doryphorus of the same artist. The Doryphorus head is deep from back to front, flat on the top, square in profile. This has been regarded as the normal head of the school; and the statues of boy athletes and the Idolino have mainly on the ground of having heads of this type been given to the school of Argos. But the head of the Diadumenus is notably of another character, much more rounded and While the bodies and attitudes of the Doryphorus and Diadamenus are scarcely to be distinguished, the heads are far apart; and it has been recognised that the Diadumenus head is much nearer to the Attic type. Archaeologists such as Fartwängler have accounted for this by supposing that in later life Polycleitus came more under the influence of the great contemporary Attic schools of Myron and Pheidias. The explanation is scarcely quite satisfactory; but it is hard to suggest a better

In fact there is another type of Diadamenus which is often regarded as Attic. This is the Farnese Diadamenus of the British Museum, which differs from the Vaison figure in pose. The Vaison figure is moving forward, in the act of transferring his weight from one foot to the other: the Farnese figure is standing in a stable position, with feet flat on the ground. The heads of the two figures do not greatly differ; and it has been noted by archaeologists that these heads are both of the Attic type, soft and rounded, and not of the severer and squarer Dorian type, to be found in statues of

the Dorynhorus.

In one point our head agrees more closely with the Farnese than with the Vaison type. The fillet on it is already knotted at the back: this is clear in our original, though part of the fillet is restored. After tying the knot, the boy is still holding in his hands the two ends of the fillet. The Vaison athlete is only preparing to the knot. But when we look at features, there is no likeness between the Farnese head and ours. Eye and car are markedly different. And the hair of the Farnese head being very superficially rendered, and the nose restored, it presents in these points no likeness to our head. We find indeed a contrast rather than a parallel.

Brunn regarded the Vaison and the Farnese Diadaments as both Polycleitan. Most archaeologists recognise a distinction, regarding the Vaison type as Polycleitan, the Farnese type as Attic; and a parallel to the standing attitude of the Farnese figure has been found among the youths on the Parthenon frieze. It has also been noticed, with justice, that a firmly standing attitude is far more appropriate to the action of binding one's hair with a fillet than is the walking attitude of the Vaison figure; whence some archaeologists have been disposed to think that the type originated in the

Attic school of Pheidias," and was copied in Arges, being transferred to a less satisfactory pose which we know from the copies of the Doryphorns

to have been Polycleitan.

I do not think that this criticism is at all conclusive. The Farnese statue is a very poor work, and not to be trusted for the reproduction of details. The attitude occurs not only in the Parthenon frieze, but in works of decidedly Polycieitan character, such as the Idolino; and the head, though of soft and rounded type, is not more soft and rounded than the head of the Vaison and Delos statues. It would be absurd to suppose that so great and so prolific a sculptor as Polycleitus would comine himself to one attitude and one type of head. I am therefore disposed to revert to the view of Brunn, and to regard the two types as two variants of Polyeleitan originals. If, as Furtwangler maintains, Polycleitus could copy an Attic type for his heads, he might just as well copy it for a figure in the Farnese attitude as for a figure in the Vnison attitude

Some of my friends have urged me to avoid unnecessary modesty by boldly claiming our head as belonging to the original Diadumenus mentioned by Pliny. To this claim, however, there are objections, which I think fatal. If the Vaison and Deles statues are evidence, the Polycleitan Diadumenus was a fully developed young man, not a boy; and he was on the heroic scale, larger than life. Pliny speaks of the Polycleitan figure as molliter juvenis; and the term juvenis does not suit our head. We must be content there. fore, to call our head a work of the school of Polycleirus, though it may quite possibly be part of one of the many Polycleitan statues of boy

Thus taken by itself, our head would be regarded as of Attic type, with rounded outline and brachycephalic. Yet it prohably belonged to a statue

of the Polycleitan class.

In any case its delicacy and heauty enable us to appreciate more fully than before the technical perfection reached by the great bronzecasters of Greece in the middle of the fifth century. Hitherto we have found it somewhat difficult to understand the immense reputation which the athlete statues of Polyclenus enjoyed in Greece. But we must remember that a copy in marble necessarily loses most of the character of a bronze original. The fine and delicate treatment of the hair, the ear, the evolids, cannot be reproduced in the softer and coarser material.

We can now well understand how a full length figure produced by the very fine and delicate process called the 'lost wax' process, by such an artist as modelled in wax our new head, would be a work of the most remarkable and fascinating beauty. The Greeks appreciated the points of a body in a way which we do not readily understand. Plato observes that when a painter has to represent a landscape, mountain, wood or river, he is content merely to make suggestions. 'Since, he observes " we have no

a Critico, beginning. Quoted in my Prin " It has even been suggested that the Farmen figure is a copy of an Amedianeous copies of Greek Art, p. 20. by Phindian, set up at Olympia.

accurate knowledge of such things, we do not closely examine or criticise the paintings; we are content in such a case with a vague and delusive rendering. But when the artist tries to represent our bodies, we keenly perceive the defects, and, in virtue of our constant close observation, become severe critics of one who does not render in all respects an accurate likeness.' Plato is of course not merely speaking of the face of a man, but of his whole body; and if we remember this we shall realise how contrary the Greek point of view is to that usual in modern days. We look very carefully at all the features of nature; but of our own bodies we know but little; we are generally disposed to be ashamed of them. Of the points of beauty and ugliness in dogs and horses we have a far more definite notion than in the case of human beings. Of course we shall never go back altogether to the Greek point of view; yet it would be no bad thing if we could learn in the school of Polycleitus to appreciate more fully the beauty of the well trained male body.

P. GARDNER.

A VASE FRAGMENT FROM ORVIETO.

PERHAPS an apology is due to the readers of the Journal of Hellenic Studies for venturing to call their attention to so fragmentary a vase as the one depicted in the accompanying illustrations, Figs. 1, 2; the excuse must be that the design offers certain points of interest which make one regret its mutilated state.

All that are preserved are the stem and part of the interior design, cm. 55 x 48, of a r-f. kylix which was purchased at Orvieto and purports



Pio 1.

to have been found there. The clay is fine and well worked, the black varnish of the stem of a brilliant lustre. Of the exterior design there remains only a small section of the ring indicating the ground, and one long, slender foot.

The scene of the interior shows a scatted man with his right log raised and left arm extended; over this arm hangs a mantle, his sole drapery, drawn with broad folds and extremely parsimoniously sown with dots. The bold thick relief line of the limbs is vigorously rendered; the hair on the

chest and inner markings of the muscles are of golden brown thinned varnish. In the field is a kappa and the rounded end of some object,

both in purplic

Although little remains there is nevertheless enough to enable one to form some estimate of the place to which this fragment belongs; yet since the freedom and mastery of technique exclude the earlier artists, it must necessarily be assigned to the cycle of the latest masters of the severe style.

The nearest affinities are vases in 'the style of Brygos's the wide folds, sparing use of dots, and naturalistic ends of drapery may frequently be instanced.\(^1\) Still more distinctive is the delineation of the collar-bone, not rendered after the manner of Douris by two strokes with book-shaped



Fig. 2

ends, nor in the very individual manner of Kleophrades, but by a simple Y-shaped line. The nipple is indicated by a slight stroke, but more characteristic is the hair on the chest, which can be closely paralleled by the Zena of the Boston kantharos, the Aristokrates of the British Museum kylix, the bearded man of the Würzlurg vase, etc. Another mark of identification is the 'Brygan' form of eye, described by Perrot as a triangle isoscèle.

Of E. Pottler, Dourse, Pige 6, 10, 11, and 21.

⁹ G. Porrot, Hist. de l'Art, x. 1914, p. 356 and Fig. 201, No. 23.

Cf. Zens of the Baston Kantharos (F. R. Tarbell, The December Public, for the Univ. of Chicago), vi. 1902, Ph. H., 111.)

^{*} J. D. Benzley, J.H.S. sxx. 1910, p. 42, Fig. 1.

Hartwig, Meisterschales, Pl. 34. Furtwangler-Baichhold, Geisch Vasannaicisi, Pl. 30. Cf. also the souted man of the Vietna skyphos, K.-R. Pl. 84.

The fragments at Stuttgart in Hauser's possession were found at Orrieto, as also the vase in Vienna, the fragments in Hartwig's own collection and the kylix in the Faina collection, where there is a strong resemblance between the nude man of the exterior design and the man shown on our fragment in the rendering of the collar-bone, hair on chest, nipples and type of face.

A very close parallel is the broken sherd from the Acropolis's showing an agitated man leaning on a staff, but clasping his head with his right hand. In this case, also, his mantle covers one arm only, and the bodily forms and facial type are nearly akin to our subject. Genre scenes, indeed, often form the theme of the interior design of vases in the style of Brygos.

Although we lack conclusive evidence which would justify us in definitely attributing this work to Brygos, nevertheless the striking resemblance between its style and those of authenticated vases by the master shows that if not from his own workshop it was executed at a contemporary date and under his influence.

E. DOUGLAS VAN BUREN.

ROSE, May, 1918.

 ^{*} Hartwig, op. cit. p. 318, Fig. 42, and
 * Hartwig, op. cit. p. 328, A.-E. M. 1893, pp. 120 ff.
 * Hartwig, op. cit. p. 328, A.-E. M. 1893, pp. 120 ff.

THREE RED FIGURED CUPS.

[PLATE H.]

T

The vase-painting published after a photograph in Pl II. 1, and after a drawing in Fig. 1, has already been reproduced on p. 86 of my Vases in America; but it lost so much in exproduction that I considered it my duty to republish it as soon as possible in order to correct the unsatisfactory impression which the previous publication must have made; the editors of the Hellenic Journal have kindly offered me these pages for the purpose.

The painting forms the internal decoration of a fragmentary red-figured cup found at Cervetri and now in the possession of Mr. Edward Warren at Lowes The stem and foot of the cup are lost, but the stem at any rate

was of the normal type. The exterior was undecorated.

A naked woman is moving quickly towards a column-krater, wreathed with ivy, which stands on the ground in front of her. In her left hand she holds a kotyle her right arm was extended behind her downwards, and her right hand may have held another object, such as a cap or a jug. Part of the left shin is preserved: the left leg evidently passed behind the right and was strongly flexed at the knee. The hair is cut short, but a fringe of ringlets runs round the lower edge; the outer edge, which is crenate, is separated from the black background by a reserved line. A red line, gently curving, and turned up at the forehead, represents a fillet. The whole contour of the figure and of the vessels is lined in with relief-lines against the background. Yellow thinned varnish is used for the transverse creases at the waist, and for the necklace and its dotted pendant, which are visible in the drawing, though not in the photograph. Round the figure, the fragmentary inscription - 103 KALO[s], the two last letters being written on the krater. On the ketyle, AORIS. Both inscriptions are in red. The alpha is open as the top: the diagonal strokes of the kappa do not touch the upright: the rho has a short tail: the delta is of the normal form. The line of the ivy wreath is brown, the leaves black. The picture is surrounded by a band of stopped meander pattern.

At first sight, the inscription AORIS might seem to give the artist's name: the cup would be the work of the vase-painter Douria. But the style

is not that of Douris, either in his earlier, or in his later, longer, and better-known period; those who are acquainted with the work of the Panaitios painter will recognise, in our cup, the hand of that excellent artist [see Vases in America, pp. 82-87).

The word ACRIS is not followed by expapaer, and there is therefore no proof that it was intended as an artist's signature. Mr. Warren suggests to me that it characterises, not our cup itself, but the ketyle held by the woman, as a work of Douris: a complimentary, almost dedicatory, inscription like the



Pis. L.-R. P. Cur sw Collection or Ma. Enward Warner.

Hoppin, Enthymides and his Fellows, Pl. 28, above). Other explanations might be given; but this seems to me as attractive as any. It is possible that the same interpretation may apply to the OΔORI (δ Δούρι) on the cup published by Miss Harrison, which was formerly in the Tricoupis collection and is now in the Museum at Athens (J.H.S. X. Pl. I.). But it is equally possible that the OΔORI was written by the painter of the cup. The determining factor, in both the Athenian cup and ours, is the style of the drawing.

The fragmentary love-name on our cup need not have been but very likely was, Panaities. The date is between 490 and 480: say, 485. The style seems a trifle more advanced than that of the cup in the British Museum which the Panaities painter decerated for Euphronies (E 44: F.R. Pl. 23).

П

The vases which bear the signature of Douris may be divided into three classes. The first class consists of the unpublished cap with the love-name Chairestrates (Louvre G 122); the Vienna arming cup, painted for Python (F.R. Pl. 53); the Boston Chairestrates cup from Corneto (Hartwig, Moisterschulen, PL 21), and the two fragmentary cups in Berlin (2283 and 2284: A.Z. 1883, Pil. 1-2), one of which hears the love-name Panaitios and the manufacturer's name Kleophrades, the other the love-name Chaireatrates and the artist's signature. The second class consists of one wase, the Berlin cup 2286 (A.Z. 1883, Pl. 4: A, new, Jahrbuch, 31, Pl. 2); the third, of all the rest. The first and varliest group is characterised, among other things, by the rendering of the collarbones and of the hip-furrow; the lines of the former stop at the pit of the neck and have no books at the guils, the latter appears as a single gentle curve. In the third series the collarbone lines end in hooks, and the hip-furrow is composed of two quite distinct curves. In the third series, earlier and later can be distinguished. and chronological groups can be formed, as Buschor has shown in his excellent article ' Nece Duris-Gesisse' in Jahrbuch, 31, pp 74-95; but the whole group is remarkably homogeneous.

There remains the second group, the Berlin symposion cap. Buscher (loc. cit. p. 89) classes it with four other signed caps which I should consider to be typical examples of my third group, and with which it does not seem to me to have much in common. Again, I cannot put it in my first group, for one reason, because its style is obviously later; nor between the first and the third, because the transition from the Berlin Panaities and Chairestrates caps (A.Z. 1883, Ph. 1-2) to the vases of the third group seems to be easy, straightforward, and long-prepared, whereas the Berlin symposion cap would send the arisist on a circuitous route. To put it after the third group would not occur to anyone; the latest work of Douris is to be found, as Buscher shows, in such unsigned vases as the Boston thisses cap (Hartwig, Pll, 74-75; see also Vases in America, p. 99).

The Berlin symposion cup does not stand alone: Moiseeff has already pointed out another work of the same style, the pelike fragments in the collection of the Russian Archaeological Society at Petrograd (Zapiski Russkage Arkheologicheskage Obshchestva. 1013, 19. 2, 2; Jahrbuch, 31, pp. 76-77). Buscher and Hauser added three other vases a stamnos and two Nolan amphorae (Jahrbuch, 31, pp. 75 and 93).

Working independently of these wholers, I had reached a conclusion which tallies, up to a certain point, with Buscher's. I had not seen his

article when I compiled and sent to press the list of vases by the painter of the Louvre Triptolemes stammes which appears in Vases in America, p. 98, note I. This list includes, as numbers 1, 4, 5, 7, and 11, the five vases grouped together by Buscher, and it is gratifying to find that we are so far at one. A group of vases in what is unmistakably the same style, and one of them signed by Douris: Buscher drew the natural inference that all five were by Douris: I owing to the extreme difficulty of fitting the symposion cup into the work of Douris, detached it from his work and conjectured the signature to be an ancient forgery. That Buscher's theory is at first sight the more plansible I do not deny; but that mine has great advantages I hope, at some later date, when my material is collected, to be able to show.

III.

Klein's list of vasus signed by Douris numbers twenty-four (Meister. signaturen, pp. 150-161); the most recent list that compiled by Frucht (Die signisrien Gefüsse des Duris, Munich, 1914), gives thirty-four : deduct the Berlin symposion cup, and add the cup in the Kunstgewerbe Museum at Dresden A a man leaning on his stick; holding out a purse, with Apple eypaporer and Xaiperrpares kalos; B, men and youthe), and the total remains the same. It is generally recognised that we have a great many Donrie vases besides the thirty-four signed ones. Hartwig, in his Moisterscholen (pp. 200-230 and 583-627), attributed thirty-five unsigned vuses to Douris, the majority of them for the first time; to which we must add the fragment in the Kopf collection which he published some years later (Festschrift für Branderf, p. 86). Of these I should admit all but five: numbers 32, 36, 38, 43, and 59 in the list on p. 686 of Meisterschulen. This gives a total of sixty-five Douris vases. Van Branteghem assigned to Douris the lekythos with the love-name Chairestrates which was once in his collection and is now in Boston: Pottier the two fragmentary cups G 126 bis and G 125 in the Louvie (Catalogue des vases du Louvre, pp. 967 and 966); Hoppin the thiases cup in his possession: D. M. Rohinson his late symposion cup. Do Ridder attributed to the workshop of Douris the cup 540 in the Cabinat des Méduilles (Vases du Cabinet des Méduilles, Pl. 21, and pp 468-410 and 379); the Boston cup with a woman at a laver (97, 369) was pronounced to be in the style of Douris by the authorities of the Boston Museum. Buscher showed, in the article already mentioned, that a number of unsigned cases collected by Hartwig (Meisterschalen, p. 657), but attributed by him to an imitator of Douris whom he christened the Master with the Spray,' were really late works of Douris; the same view was tentatively expressed in Vieses in America (p. 99). Hartwig's Spray group consists of nine numbers (Meisterschulen, p. 691); number I, the astrogalos in the Villa Giulia (Bolistino d'Arts, 10, pp. 345 and 346), is to be cut out it is by the Syriskos painter, whose works are given in Vases in America, pp. 64-65; the rest may remain.

Eleven new attributions were made in Vascs in America (pp. 97-99), and the list may be increased. The following cups seem to me the work of Douris.

Lewes, Mr. E. P. Warren, fragment: A, male pursuing woman; all that

is preserved of B is a number of legs.

Palermo, from Chinai. A poor reproduction in Inghirami, Musso Chinsino, Pll. 109-111: A, seated man; B, athletes and men. This cup is especially interesting because it is in the same style as the signed athlete cup in London (B.M. E. 39: W.V. 8, 1: A, Murray, Designs, No. 24: B, J.H.S. XX. Pl. 12). The border in the interior is a simple line.

Florence, from Chiusi: A, man reclining holding an oinochoe: B, symposion. The border on A is of the most usual Dourian type, as in Murray,

Designs, Pl. 9.

Louvre, S. 1327, fragment: A. a youth wearing a himation, and part of another figure. Hardly anything remains of B.

Oxford, fragment lent to the Ashmolean Museum by Mr. Stuart Jones: from Ocvieto: B, figures wearing himatia.

Adria, B 500, from Adria, fragment: A, a man seated holding a lyre, and a youth; B, figures in himatia

Wirzburg, fragment; B, men and youths.

Wirzburg: A symposion: a man reclining, and a woman standing in front of him holding oinochoe and cup. kALOS, the letters very close together. Late.

Corneto, Count Bruschi: from Corneto: A, man and youth standing facing;
B, men and youths. The border on A is an ordinary meander by twos

with Dourian cross-squares. Late.

Orvieto, Count Faina, 60; from Orvieto, fragmentary: A, symposion; man and woman on a couch. KALOS. Late. The border on A is of the type shown in Murray, Designs, number 34.

The reverse of the London cup (B.M. E 60) is an imitation of Douris by a weaker artist.

That Douris painted other vases besides cups is shown by the signed kantharos in Brussels and the signed psykter in the British Museum. A tekythos in Boston has been assigned to him, as stated above, by Van Branteghem; and another lekythos is attributed to him in Vases in America, p. 98. The case of the lekythos which bear the word ΔΟΡΙ΄ς without eypadorev is a difficult one; they may or may not be by Douris Hartwig assigned to him a fine fragment of a pyxis in the British Museum (E 807 - Meisterschulen, p. 625); there is an excellent pyxis by him, with Menclacs pursuing Helen, in Manuheim. Two lion's head rhyta, one in the British Museum (E 706; Walters, History of Ancient Pottery, 1, Pl. 46, 5; a woman pursuing a youth), and the other in the Louvre (komes), are both decorated by Douris. Finally, a fragmentary cup-kotyle in Bologna (470): Pellegrini, Vase delle Necropoli Felsines, p. 213) is placed by

Pellegrini in the school of Donris and is no doubt one of the artist's later works. I have not seen the neck-amphora (with double handles?) in the Stroganoff collection (Compte Rendu, 1874, Pl. 7, above), and do not add it to the list; but I think it very likely that Hartwig is right in connecting it with Douris (Meisterschalen, pp. 625-626, note).

The vases assignable to Douris thus number a hundred and five.

IV.

Pl. II. 2 gives the design on the interior of a fragmentary red-figured cup in the University Museum at Philadelphia. For the photograph, and for permission to publish it. I am indebted to Miss Edith Hall. The composition is much the same as in the larger, finer, and slightly later cup which has been assigned above to the Pannitios painter. The artist is the Colmar painter, so named after a cup in the Schongauer Museum (Arch. Anz. 1904, p. 53), a list of his works has been given elsewhere (Vases in America, pp. 81-82). Yellow lines for the inner marking of the body between chest and hip, but none on legs or arms: a brown line on the cup which the youth holds in his left hand; indicating the offset lip. The wreath on the krater black; the navel a black are. On the reverse a symposion, with a reserved line below; one figure and part of another remain; the figure preserved is a youth playing at cottabes.

A cup by this painter in Harrow (number 6 in my list) has a similar subject on the interior, a maked youth running with a cup in his left hand and plunging his right hand, which is to be thought of as holding

an omechoe, into a calyx-krater which stands before him.

Pi. II. 3 is the internal design of a cup by the Colmar painter in the Hofmuseum at Vienna (number 8 in my list). The photograph, with permission to reproduce it, was kindly sent me some years ago by Dr. Julius Banks. The subject is a reclining youth playing at cottabos. The photograph fails to reproduce the brown inner marking below the breast, and the brown intermediate lines on the drapery, half-way between each pair of strongly curved black lines. On the aide of the couch, in brown, HOPA(5) a brown line on the cup held in the left hand. On the reverse, two silens and a machad and two silens and a mule, with a reserved line below: HOPA(5) over each scene, and the same, retrograde, in front of the youth's face on the obverse.

J. D. BEAZLEY.

QUEEN DYNAMIS OF BOSPORUS!

[PLATES III., IV.]

I.

In 1808 there were discovered in the rains of an ancient building (maybe a temple) near Novorossijsk several objects made of bronze (a candelabrum the remnants of a tripod, the handle of a vessel probably some consecrated plate), and together with them was found a woman's bust in bronze.

The style of the candelabrum reminds one closely of the candelabrum discovered in the vault of Mme. Zuitzeva in Kertch, and it dates consequently from the age of Augustus (see Bostovtzeff, Ancient Decorative Painting in the South of Russia, St. Petersburg, 1914, p. 207 t. Pl. LX.). The handle of a vessel, in all its details, is similar to handles of vessels found at Bori. The whole treasure found at Bori was published by h. M. Pridik (Materials for the Archaeology of Russia, No. 34), and it dates from about the beginning of the Christian era.

To the same time also belongs as we shall see, the most interesting amongst the objects discovered at Novoressijsk; the bast of a woman (Pl. III.). This bust has a hollow rod affixed to it for the purpose of mounting the bust on a pedestal. Its height, the rod included, is 26 cm., the length of the rod, 2 cm., the width at the shoulders, 16 cm. The workmanship is excellent. The woman represented is not young. Her hair, waved in front and combed over the curs is tied at the back in a long knot; from under this knot tightly curled locks fall on the shoulders to the right and left and down the back. The pupil and the iris are indicated by engraved lines. Small round earnings adom the ears.

The most characteristic feature of the bust is its headgear, shaped like a Phrygian cap or $\tau i \delta \rho a \delta \rho \theta i$. The tiara may have been made of leather, or felt, or metal. The whole surface of this headgear is covered with incrusted silver stars or suns, with eight rays to each. In the intervals four-leaved

This arrive was first printed in Russian in the publication to honour of Countess P. S. Uvaroff, President of the Mossow Archeological Society (Mossow, 1914). It is reprinted

here with considerable changes based upon new materials not available to me at the time of the first pridication.

copper results are incrusted, each leaf shaped like a heart. Apparently a diadem encircles the tiara and is tied up at the back by a wreath.

First of all, the bust undoubtedly represents a mortal woman and not a goddess: a broad, theshy face, a round chin, tightly pressed lips, a large, straight nose, thin eyebrows, a fashionable conflure show clearly that this is a portrait of an elderly woman, slightly idealised perhaps, but with a good general likeness and a strong individuality.

The time to which the bust belongs can be indicated quite accurately, leaving no place for doubt. Apart from the excellent, although somewhat heavy, workmanship, a definite indication is given by the fashion of the hairdressing. This hairdressing is characteristic of one period only, about the beginning of the Christian cra: the epoch of Livia, Antonia, and both Agrippinas (amior and junior). These conditions admitted, and the suggested date being unquestionable, the headgear of the bust and its ornamentation acquire a special importance.

The headgear, aranmented with sons or stars (πίλος ἀστερωτός, as Julianus calls them, Or. v. 165 B, when indicating that Cybele made a present of it to Attis), is found on two series of monuments of the Helianistic period. The first series opens about the second century 0,0 with the coins of Pessinus, on which the heads of Cybele and Attis are reproduced together, the latter with a leathern cap covered with stars and with the symbols of Cybele on the reverse (see Imhoof-Blumer, Griech, Münzen, 226 (750), 748 f., Taf XIII, 7-0). To these are related undoubtedly all the later reproductions of Attis and men with the πίλος ἀστερωτός for headgear (see, in addition to the works indicated in the footnote, also Roscher, Berichts der sichs, Ges. 1891; Phil. Hist. Kl. vol. 43, especially Pl. I*, 7 and 8). All these representations of Attis are to be distinguished by the usual stars reproduced on the cap of Attis with irregularly disposed rays, the number of which varies (from four to seven).

More instructive is the other series of monuments, more closely related to our bust. This series is strictly confined to the limits of the Pontus and the Pontus kingdom. It begins in a characteristic manner with the coins of Queen Amastris. The foundress of the city of Amastris on the Pontus, the daughter of Oxathrus, brother of Darius Codomanus, for a long time she ruled over Heracles. On her coins and on the coins of the city of Amastris of her time (see Babelon-Reinach, Rec. gen i. 185 f., Nos. 1-9, FL XVIII 1-9) we find on the obverse the representation of the head of a youth wearing a leathern cap of the so-called Phrygian shape, with a laurel wreath

Later recomments in macquestively large numbers are empired by Druzbe, John, Jar Phil. 1894, 325 I; compare the same in Rescher a Leaves, ii. 2, 2741, 2743; see also finite off, The Physpias Messend, a publication in honour of I; V. Foundovsky, 107, 3; Hapding, Aites, 129, 8. The typical shape of the stars or season our bust is not found in

them. A best of the Moon-god or Attis, contemporary with our bast and reproduced on one of the Hildenhaim silver vessels (see Parnice Winter, Dec Hildenhaim Silberjami, Burlin, 1901, Tal, V.), a pendant to the vessel with the best of Cybele, has quite another kind of wars, differing in the becknique of their workmanalip

I may remark, by the way, that the sun and the moon appear also on the coins of the successors of Mithradates, especially on the gold stater of Dynamis (Head, Hist. Num.² p. 504), a granddaughter of Mithradates (see Pl. IV. 4) and the sun alone on the coins of Polemon (see Pl. IV. 9), who for some time was the husband of Dynamis (Babelon-Reinach, Rec. 1. 1, p. 19, Nos. 17 and 18, Pl. III. 7 and f. I); and, lastly, the sun subjected to the zodiacal sign of the balance on the coins of Pythodoris (Babelon-Reinach, ibid., p. 20, No. 29 bis, Pl. III. 10), and the sun combined with the moon on coins of the son of Dynamis—Mithradates VII. (see Pl. IV. 7).

If, at the same time, we take into consideration that the leathern helmet is a characteristic feature also of the above-mentioned second series of coins, i.e. the coins of Mithradates in his youth, and that on a number of coins of Amisus and Chabacta, minted, as Imboot supposes, also by Mithradates, he is represented wearing the helmet of Perseus, which reminds us in nearly all its details of the helmet on our buss (see Babelon-Remach, i. l. p. 55, No. 32, Pl. VII. 25, and No. 35, Pl. VIII. 27 : p. 77, No. I, Pl. XI. 21; Imboof Blumer, Num. Zeitschr. 45 (1912), 180, Nos. 62-64, Tat. II. 19 and 20), it seems more than probable that the τιάρα ὁρθή, or the helmet in the shape of a tiars, of our bust indicates the sovereign status of the woman represented and the fact that she belonged to the dynasty of Pontus. I must point out also that the resettes on the helmet may have been suggested by the resettes of the wreaths encircling the reverse of the coins of Mithradates the Great.

Consequently our least represents one of the women belonging to the royal family of Pontus, who lived about the time of the beguning of the Christian era—in no case earlier than that epoch and not later than the epoch of Agrippina junior—and who stood in very close relation to the kingdom of Bosperus and the territories belonging to it or considered as its dependencies.

All the above-mentioned considerations and hypotheses are most brilliantly confirmed by comparing all the monuments indicated above with the statues and reliefs of the two temples that were built by Antiochus III, of Commagene on the eastern and western terraces of his burnal tumning on Nemrud-Dag. This tumulus strikingly reminds us of the royal tumuli of the sovereigns of Bosporus on both sides—the European and the Asiatic—of the Cimmerian Bosporus. I will not repeat here the exemplary commentary of Pochatein on the sculptures of these temples, of which unfortunately so little use has been made. I may remark only that the gods, especially the Persian gods Mithra and Anramazda, are represented always with the typical rulps $\delta\rho\theta\dot{\eta}$, repeating in all its details the tiara of our bust even the diadem encircling the lower part of it. The diadem of Auramazda (Taf, XXXIX. I) is covered with reproductions of lightning, and the tiara

^{*} See many on this matter in my work,
* See Hammin and Production, Resses in
Angust Departure Printing in the South of Kinnedson and Kordeyroon, Berlin, 1894.
Resses, St. Petersburg, 1914, p. 45 f.

with stars or suns; the tiars of Mithra (Taf. XXXVIII. 2) has two diadems (at the bottom and in the middle), and is surrounded by sun-rays. It is characteristic that an exactly similar turn, encircled by a diadem at the bottom and covered with circles and rhomboids is worn by the great glarified Persian king, the ancestor of Antiochus, whose figure has been preserved so beautifully, quite beyond comparison with any other statues and reliefs in temples, on the relief reproduced in Taf. XXXVI. I. Here also, as on our bust and on the relief of Auranazala, the tiars is covered with three rows of sans, typical also in the Commagene sculpture. The same suns adorn his boots and trousers, which are discernible under the ceremonial xazzos in which he is clothed.

It is characteristic that the suns adorning the τιάρα ἀρθή of great gods and glorified Persian kings play a large part also in the costume of the Commagenian kings. The ornamentation with suns of the armour of Antiochus on a number of reliefs is quite typical (Taf. XXXVIII, 1, 2; XXXIX, 1, 2, etc.).*

I must remark also that the renowned zodiacal lion of Nomrud-Dag, covered with stars or suns, with a crescent under the neck (Taf. XL.), serves, evidently, to explain the crest—a sun and a crescent—on the coins of Mithradates."

After these comparisons there is no doubt left that our bust represents a queen who traced her origin from the Persian kings, i.e. who belonged at that time to the family of Mithradates, although, perhaps, the bust was not made during her life, but after her death, as seems to be indicated by the place where the bust was discovered and by the idealisation of the queen's features. It is indubitable, too, that the queen had actually ruled, and that she had ruled a long time and alone, considering herself, and being in fact, equal in her severeign rights to any other king.

All these peculiarities have to be taken into consideration when the question is put; which queen of the family of Mithradates, having ruled over the Bosporus, may be recognised in the features of our bust, which belongs to about the beginning of the Christian era!

There is not much choice in this case. But it is abstracteristic that a priori all the women out of whom we can choose could have been represented in a monument such as our bust. I am alluding to Dynamis,

Punistein it 1, p. 293 i.); he speaks of the tiers on p. 300 f. Compiles the tiers of Tigranss I. of Armonia, on the sale of which a sum with eight rays is represented between two engles: Percy Gardner, The Silencial Kings of Sprea, p. 103 f., and Babelon, Lee ross de Sprin, p. 213 L. Pl. XXIX. 8 f.

In the collection of Salidoff there are account downs of gold pieces of divers dimenalone and types with the same ornament in

reind; probably they were seen upon a lasthern entrace (see L. Pollank, Klassischmitzle Geldschmitzle arbeiter in Broits: A. Leon Neldon, Luppig, 1903, Nos. 492, 493, 494, 400, Tat. XIX.). Similar small gold pieces or squares have been found in a number of burnals of the first century a.e. in the month of Russia (see Comptencember de la Commission Impériale Arch. 1888, Atlan, Pt. L. 3.)

^{*} See an this Punhstein L L, p. 320 L

the wife of Asandros, Scribonius, and Polemon I., thoughter of Pharmees and granddaughter of Mithradates, who, as I shall try to prove, ruled for a long time over the kingdom of Bosporus, the whole of her much agitated life passed on the Bosporus, also to Pythodoris, the wife of Polemon L, whose sojourn in the kingdom of Bosporus figured as a short episode only in her life; to Gepaepyris, the wife of Aspurgos, the stepmother, perhaps, of Mithradates II. (VII.), and in any case the mother of Kotys L, as I shall try to prove below; and, lastly, to Antonia Tryphaena, who came into touch with the Bosporus through her only son. Polemon II. All these women were typical Helienistis queens, energetic and powerful, all of them either ruled personally or actively collaborated with their husbands in ruling; or in some instances opposed their husbands and competed with them for sovereign power; therefore any of these women could have been immortalised by a bronze bust representing them with their queenly headgear. But, as we shall see further, the only one who during the whole of her life had been closely linked to the Bosporus was Dynamis, and she alone had the blood of Mithradates flowing in her veins. Therefore, a priori, it seems quite possible that she, precisely, has been immortalised by the bust.

Apart from such a priori considerations, iconographic comparisons are also possible, because the portraits of all the above-mentioned women have been preserved up to our time on their coins. 10

As far as I can see, the only one of the four queens whose features can be likened to the features of our bust is Dynamis. Unfortunately, the portrait on the unique coin of this queen (see Pl. IV. 4) that has been preserved for us is spoiled by a defect in striking precisely in the most characteristic feature, viz the tip of the nose, but the fleshy, uplifted ohin, the tightly pressed lips, the general shape of the nose, the forehead and the eyes clearly coincide with the bust. I have remarked already that the features of the bust are rather idealised; the portrait on the coin is strictly realistic. Even more characteristic are the similar small round earrings and the four corkscrew-shaped, curled locks falling on the shoulders.

To the portrait on this coin and to the bronze bust are most closely linked the coins of Caesarea and Agrippia which were minted by Dynamis, as I shall try to prove below (see Pl. III. 5 and 6). The head represented on them has nothing in common with Livia, but the features are uncommonly like the features of the portrait on the gold coin of Dynamis and the features of the bronze bust with which we are concerned. The headgear is the typical one of the Scythian queen-priestesses. We easily recognise it

pyris, Barachkoff, Pl. XXVI. Nos. 93, 94; Minus, Scycleans and Greece, Pl. VII. 7 is ex. Pl. IV. 10. 11) Kabrsteilt, Kilo v. (1910), p. 360 f., supposes that the head on the cam of Pythadaris is not the head of the queen herself, but the head of Livis, which is quite possible. The com of Dynamus I reproduce from the mainus specimen of Court Uvaroff's collection (see Pl. IV. 4).

to The soin of Dynamis has been published by Orieshnikoff, Outeloyus of Count Degraf's Collection, Pt. 13. 471: compare Minns, Septimus and Oresta, 192, hg. 247; the come of Pythodoria, see Babelon Ruimach, Rec. 1, 1, 29, Nos. 19-21; compare further the literature concerning the life and rule of this queen; soins of Antonia Tryphasma, I.e. p. 21. Nos. 22-28 (see Pt. IV. I)) comes of Gepac-

by comparison with the objects discovered in the Scythian royal burials; see my article, "The Hellemic-Scythian Headgear," in the Bulletin de la Commission Archéologique, l. 63 (1917), 69 f.

The portraits of the other above mentioned queens, in my opinion, have no resemblance whatever to our bust; it is characteristic that Tryphaena and Gepacpyris resemble one another very closely. However, to complete the picture, I consider it indispensable to give here a short description of what is known to us about the four above-named queens, as all the records of their lives in ancient documents and in the nawest scientific literature as well, are obscure and very debatable, although in my opinion they may be grouped rationally and explained. This is especially the case as regards the lives of Dynamis and Gepacpyris, who alone have any reasonable claims to be considered as the originals of the bust.

H.

The history of the Bosporus after the death of Mithradates is clear enough in its principal features, although very monthiesently indicated by some accidental notes in the works of Cassius Dio and Appian, by several inscriptions and by a series of coins rather difficult to understand. The ideas of Mithradates continued to influence some of his successors, both the nearest and the more remute; his name still had authority among many of the tribes which had been ruled by him. His idea of creating a kingdom of Pontus based on the Gracco-Iranian culture, and on an army organised principally out of the comparatively civilised elements of the population of Cappadoca and Pontus, and the kingdom of Bosporus as well, with all the adjoining more or less cultured tribes and peoples, was neither utopian nor unrealisable. The struggle of Parthia against Rome and her offensive in the epoch of the irrumvirate, i.e. the repetition by the Parthians of the attempt of Mithradotes, and the latter attempt as well, had disclosed the powerful forces secreted by the somewhat Hellenised Iranian elements who formed the rolling class of the population in the greater part of the great kingdom of Mithradates, and who played a pre-eminent political and cultural rôle in the life of non-franian Caucasus, Cappadocia, and Armenia. Having assumed to a great extent in the Hellenistic epoch, especially in the second century a.c., a Sarmatian appearance, the kingdom of Bospurus prepared for political organisation a number of the nearest Sarmatian and Seythian tribes; a longextended cultural influence exercised by the Greeks over the Scythians, first from Olbia, then from the Bosporus and Chersonesus, made possible the continuation of the existence of the ancient Scythian power on a more civilised hasis in Crimea, in the kingdom of Skilures and Palakos. To put a finishing touch to this ancient cultural work, to unite all the cultured parts of the Scythian and Sarmatian world, one thing only was needed: a strong personal will a leader closely related in spirit and national feeling to all those elements which were ready for organised cultural life—an Iranian Alexander.

We must at last reject the old point of view that considered the Sarmatian tribes belonging to the foundal kingdom of Bosporus, and the Seythians of the time of Skilitros and Palakos, as barbarians. The burial turnull of Taman and of the greater part of the country on the river Kuban, of the later Hellenistic times, the poor remnants of the cities of Skilitros and Palakos, though very slightly explored, show clearly that the ruling classes of the population of these territories had outgrown the limits of burbarism and had learned how to create something personal, very original and very typical, in the region of material culture. There is no reason to wonder that reminiscences of the great past of Scythia and of the part played in the world's history by the Achaemenids of Persia had prepared for the Achaemenid Mithradates an unusually propitious ground in the political conceptions of those tribes and peoples, who undoubtedly had acquired simultaneously with a material culture the principles of a spiritual culture and some historical knowledge.

At the same time we have to keep in mind the close connexion between Pontus and Cappadocia and the morthern shores of the Black Sea in general, and the localities near to the Sea of Azov and the Kuban particularly. This connexion began, as I shall try to prove in another place, in the age of Branzs and continued up to the epoch of the Roman domination (see B.S.A., xxii. (1916-1917; 1917-1918)). It was based on a cultural as well as an ethnical relationship. One must remember that the great invasion of Asia Minor by the Scythians in the seventh century a.c. had left many traces. The Scythians undoubtedly settled down in Pontus, and this explains the presence of an Iranian element among the population of Pontus.

Mithradates was ruined, not by the Sarmatians or the Scythians, who had to form his last great army, but by the Greeks of Phanagoria, Chersonesus, Theodosia, and Panticapanum, to whom at a certain time he had served as a rock of safety to cling to when they were on the point of being submerged by the Scythian and Sarmatian tidal wave. But, just as in Asia Minor, the Greeks in the Crimea very quickly understood that their relation to Rome was closer, and that Rome was more disposed to defend them against and shelter them from the invasion of an Hellenised Iran that

threatened them, not in the military sense alone:

After the death of Mithradates the duality of forces acting in the kingdom influenced the whole history of the Bosporus. The prevailing majority of the population, all the Sarmatian and Scythian tribes included in the kingdom, honoured the memory of Mithradates and were disposed to support his heirs, and the Greeks were ready to submit to any power that would guarantee them the preservation of their nationality and of the remnants of the municipal régime to which they were used.

Rome had to reckun with all those peculiarities of the Bosporns and to keep up a constant watch, foreseeing the possible advent of a new unifier, a new Mithradates. The ruler of the Bosporns had to be sufficiently popular to unify the diverse elements of the population; he had to support the Greek elements in their struggle with the local population, i.e. he had to be an experienced politician and a gifted military leader, and at the same timehe had to act as an obedient servant of Rome, showing no tendency to renew the schemes of Mithradates

Therefore the choice of a ruler for the Bosporns was a very difficult task, and the number of solutions of the question was nearly unlimited. The death of the last Paerisades did not necessarily bring to an end the whole royal house of the Spartocods, related to the royal families of many Scythian and Sarmatian tribes. This is testified unanimously by all the half-romantic, half-historical data concerning the Bosporus of the later Hellenistic time—the tales told by Polyaenus about Amaga and Tirgatao, and the scraps of a legend about one of the latest Leukones reproduced by Ovid and his scholiast, and also the crumbs of historical knowledge which lie at the base of the moralising Scythian dialogues of Lucian, who undoubtedly was conversant with the Hellemstic literature concerning the Bosporus.¹¹

Out of this agglomeration of Greeks and Sarmatians related to the Spartocids a pretender to the throne might always appear, and always could be found when required. At the same time, all the direct descendants of Mithradates, the chips from the old block of his numerous family, had a legal right to the throne.

The dynasty of the Polemonids, the successors of Mithradates the Great on the throne of Pontus, ranked also, of course, among the pretenders to the kingdom of Bosporus. On their side was the ancient tradition closely linking together the cities of Pontus to the Greek cities on the Crimean shores.

Lastly, the ancient ethnical relationship, and in later times the tradition of Lysimachus, who at a certain epoch very strongly influenced the history of the kingdom of Bosporus, also the continuous tendency of the Thracians to move their boundaries eastwards converted even the Thracian vassals of Rome into pretenders to the throne of Bosporus and to the inheritance of Mithradates on the northern shore of the Black Sea.

In the historical struggle for the throne of Bosporus, no less than in the general history of the East at that time, a striking part was played by a number of eminent women with powerful connexions at the court of Rome, where such personal influences worked often in conjunction with political considerations, creating at times some rather odd combinations. Doubtless Pompey and Caesar, in later times Antonius and the Eastern plenipotentiaries of Augustus, Agrippa and Tiberius, and after them Germanicus, as plempotentiary of Tiberius, not to mention the emperora themselves when they stayed in the East, were surrounded by Eastern dynasts with wives and mothers. The cunning Levantines were especially successful in influencing the women who often accompanied the political rulers of Rome, especially on their journeys to the charming East.

It is from these points of view only that it is possible to comprehend

II

See my article, 'Amaga and Tirgatao, Antiquities of Odesso, v. xxeii. In the Bulletin of the Somety of History and J.H.s. -VOL. XXXIX-

the dynastical history of the Bosporus of that dark and complex epoch. It must be kept in mind also that even at that time Rome created new provinces and annexed Eastern kingdoms very unwillingly and only in cases of absolute necessity.

Dynamis, daughter of Pharnaces, was doubtless one of the most eminent women of that complex epoch. Her history reminds us to a great extent of the history of the elever, energetic, enduring, and ambitious women, wicked wives of many husbands, who appeared at the Hellenistic courts after Alexander. 15

The date of her birth is unknown, as also the date of her marriage. No serious arguments can be found for or against the statement that it was she, precisely, who had been suggested by Pharmaces as a wife for Caesar in 47 B.C. ¹² Anyhow, about that time she became the wife of Asandros, who ought to have been then over sixty years of age (he died about 27 B.C. at the age of ninety-three): If therefore, at the critical moment in her life, after the death of Asandros, Dynamis, in any case, was not a very young woman (probably between thirty and forty), as is indicated by her very realistic portrait on the above-mentioned stater, noined in 17-16 B.C.

We do not know whether she married Asandros before or after the death of Pharnaces. The one alternative is as possible as the other, but in any case at the time of her marriage she was only a tool in the hands of the politicians of that period.

The marriage with Dynamis was of the greatest importance to Asandros.
as it linked him to Mithradates and guaranteed his support by the people

Monograms, Bullitin of the Odean Society of History and Astiquities, v. xxix., wherein the whole series of gold onine of the period, as also a number of brame coins, partly on published before, belonging to the epoch that concerns us, are well published for the first time and the whole literature is reviewed very thoroughly. A number of important indications are added in the work of A. Orieshnikoff, Exerctions in the Region of Accient Namiamatics on the Shores of the Black Sea, Mossow, 1914, Namiam Collect, iii., especially p. 29 f., 57 f., 62 f.

App. B. vie. II. 91; compare vin Sallet.
Restrope are Grachicke and Numberath deKönige des commerciales Bosporus and disPentus, Berlin, 1898, 6, footnote 8; more
probable is the opinion emitted by Boschi
(C.I.G. fi. p. 94) and V. Yoigt, Dr. Asmolra,
Buspori reps, Kiev. 1884, p. 3, that Asmolras
became and in law to Pharmaises (Dio, 54, 24)
before the catastrophs of 47 s.c.

"Luc. Marrot. 17; Voigt, l. l. & As the marriage of Dynamis was purely political, it is quite possible that at the time she was still in her childhood.

if All the around testimonies and the most important liberature concerning the history of the Bosporns after Mithradates have been sufficient, after Bookh, by Latyshell in his introduction to his publication of inscriptions from the Bospoine; see the latest, somewhat veried, edition of this introduction in Russian, Latycheff, Horand, 93 f. i the newest Russian literature, unknown to liquadia, the author of the articles, 'Bosperus, 'Chemoneus,' and 'Dynamin' published in the Encyclopaedia of Panly Wissons-Kroll, who gives the complete list of weeks on this subject published in Western countries, has been studied and made was of in its totality by E. H. Minns, Southians and Greeks, p. 591 f. The article of Stein, Geprepyres, in Pauly Kroll, E. E., most be added to his references, as also the excellent actions of Dessau in Procopageaphia imperii Ruman, and his article in Eph ep. 1x. 4, 191 1, De regino Pythedovide of ite Pythodoride juniore and Reges Thracias qui Sureviel Supermote Augusto Annungat the pewest ununsually literature great importabou is to be attached to the article of A. I. Berthier Delugarde, 'On Coins of the Rulers of the Commerian Bospories, identified by

in the struggle with the Roman agent, who called himself Mithradates of Pergamon, 16 and posed also as a descendant of Mithradates. The fact that Asandros considered his marriage as of very great importance to him is emphasised by an inscribed stell erected in Panticapacium by Pantaleon, an admiral of Asandros, on the occasion, probably, of a great naval victory (Inser. Or. Sept. P.E. ii. 25). The inscription runs thus: Balatkevortes Βασιλίως Βασιλέων] μεγάλου 'Ασάνδρου [φιλ]ορωμαίου σωτήρος καί Βασιλίσσης Δυνάμεως Παυταλέων ναύαρχος Ποσιδώνι Σωσινέ[ω]ι καί Αφραδίτηι Ναυαρχίδι. The name of the queen, placed next to the king's name, indicates a sort of condominium. It is quite possible that Asandros retained his throne after the episode with Mithradates of Pergamon because Caesar, having then no time to devote to the far East, adjourned the regulation of the affairs of the Getae and the Parthians until the expedition, planned by him, into Parthia and against Boirebistas, and that later Asandros discovered a proper line of behaviour during the stormy period of the triumvirate, when possibly Dynamis became personally known to Augustus and Livin, whose support; as we shall see, she enjoyed afterwards.16 A dark moment in her history was the episode of Scribonius, to whom she was married after the death of Asandros. Probably Dessau (Eph ep. ix. 4, 694) is right in his supposition that Scribonius, posing as a grandson of Mithradates, was actually a provincial man, maybe of royal descent, who adopted a Roman name (Dio 54, 24). It would be scarcely possible for Dynamis to accept for a husband an otter stranger; a Roman without any right to the throne. But Scribonius was not successful, after the death of Asandros, as the coin of Dynamis indicates, she reigned as queen, while Scribonius was quickly removed by the Bosporans themselves, perhaps by Bosporan Greeks, to ward off the danger of a new quarrel with Rome.17

After the episode of Scribonius, with the object evidently of preventing similar attempts in the fature, Dynamis was married to Polemon—i.e. the Bosporan kingdom was reunited to Pontus, of which Polemon was the king. The condominium of Polemon and Dynamis continued for a very short time. It must be kept in mind that Polemon was murdered in 8 s.c., and that between 14 and 8 s.c., he had time to contract a second marriage with Pythodoris, and to get three children by her. If we allow four years only for the procreation of those three children, then his marriage to Pythodoris—i.e. the removal of Dynamis—ought to have taken place in the years 13-12 p.c.; therefore his cohabitation with Dynamis could not have lasted more than one year.

⁰ Strabo niii 4, 3, 0 425; R. Alex 28 and 78; Dio; 42, 48

¹⁸ See my article, "there's and the South of Busein," J. R.S. vol. vii.

⁷ I find no contraduction between the statements of Dis U.(.) and people-Limins U.(.) (compare Votg), I.A. 7); II was quite possible that Assuftee same partly deserted

to Scribenius, as pseudo-Lucian affirms, as it doubtless consisted to a considerable extent of Scribenius later it manion they who removed Scribenius, but the Grooks from Panticapaeum; see Dio, 51, 24, 3.

¹⁴ Dio, 54, 24, 6:

^{*} Surabo ani. 3, 29, c 536.

Polemon's marriage to Pythodoris led nearly all the learned commentators who studied the events in which we are interested to suppose that Dynamis died in 13 or 12 nc. Nevertheless, we must remember that no mention of it is made in any ancient record, and that many data and the whole run of events on the Bosporus testify to the contrary. Let us

disentangle these data.

Apart from literary works, the name of Dynamis appears also on a number of inscriptions. In two of them she figures as the person consecrating statues to Augustus—one in Phanagoria, another in Panticapaeum; in one of the inscriptions she figures as the person consecrating a statue to Lavia in the temple of Aphrodite. See I. O. S. P. E. ii. 354: αὐτοκράτορα Καίσαρα θεοῦ νίον | Σεβαστον τον [π]άσης γῆς καὶ | [πάσης] θαλάσσης ά[ρχ]οντα | τὸν ἱαντῆς σωτ[ῆρα καὶ εὐ]εργέτη[ν] βασίλισσα Δύν[αμις ψιλορά]μαιος (Phanagoria); I. O. S. P. E. iv. 201: α]ὐτοκράτορα Καίσαρα θεὸν | [θ]εοῦ νίον Σεβαστοῦ τον ἐαντῆς | [σ]ωτῆρα καὶ εὐεργέτην | [β]ασίλισσα Δ[ψνα]μις ψιλορώμαιος (Panticapaeum); iv. 420: Λιονί]α[ν] τῆν τοῦ Σεβαστοῦ γυναῖε[α] | [βασίλισσα] Δύναμις φιλορώμαιος | [τὴν ἐαν]τῆς εὐεργέτην.

And the people of Phanagaria erect a statue to her; see L.O.S. P. E.

11. 356: Β]ασιλίσσαν Δύναμιν φιλορώμ[αιον | τή|ν ἐκ βασιλέω[ς μ]εγάλου
Φα[ρνάκου | το]ῦ ἐκ βασιλέως βασιλέων Μιθ[ραδάτο]ν Εὐπάτορος [Διο]νύσ[ο]ν [τή]ν ἐαντῶν σ[ώτειραν κ]αὶ εἰκ[ργέτι]ν [ὁ δ]ήμος [ὁ Αγριπ]πέων.

When were these inscriptions set up and what was their object? Clearly the first three inscriptions testify to some great act of bounty to Dynamis on the part of Augustus and Livia, and the fourth testifies to an act of bounty by Dynamis to Phunagoria. In both cases they allude to salvation from some very great and serious danger. The fourth inscription alone can be dated approximately. It is clear that the stele with this inscription could not have been erected before the intervention of Agrippa in the affairs of the Bosporus. The adoption alone by the city of the name. of Agrippa indicates that this intervention was considered by the citizens as a great benefit to the city. And if the alluring suggestion of Orioshnikoff is to be accepted: that simultaneously with the adoption by Phanagoria of the name of Agrippa, some other city, probably Panticapacum, adopted the name of Caesarea-as seems to be indicated by two series of copper coins, one with the inscription 'Aypennesse and the other with the inscription Kaioapewsit should be evident that such a change of names was closely linked to some event connected with the whole kingdom of Bosporus.21

Orieshnikaff²² quite rightly connects the copper coins bearing these inscriptions with the series of gold staters bearing heads of Augustus and Agrippa stamped on them and the monograms χ or χ . And this series, beginning only in 8 n.c., goes on up to 7 a.D. Therefore the changing of the

A. Orioshulkoff, t.l. 40.

The only exception is Minns, Scathiana and Greeks, 504, I and 601, who suggests the same construction, taken broadly, as I do, although as to details we differ in a number of points.

² See A. Oriestiniked, Eccursions into the Region of Ancient Numismatter on the Shares of the Black Sea, 4. Usins of Camuren and Agrippin, p. 37-1.

names of the cities was connected with the event which occasioned the appearance of the above-mentioned series of coins with the monogram Z

n the year 8 AC28

The fourth of the above-quoted inscriptions fully agrees with all this. It cannot belong to the time of the personal reign of Dynamis in 17-16 a.c. At that time Phanagoria could not yet have been renamed 'Agrippia,' Neither can it belong to the year of condominium of Polemon and Dynamis. There is no allusion to Polemon in the inscription. Dynamis appears as sole ruler; she alone figures as the saviour and benefactress of the city, but not Dynamis and Polemon together, and the city emphasises her legal right to the throne, insisting on the fact that she is the daughter of Pharmaces and the granddaughter of Mithradates. All this is absolutely irreconcilable with the suggestion that the inscription belongs to the year of the condominium of Polemon and Dynamis. Polemon's masterful personality would never have allowed such a belittling of his prerogatives. It is clear that the inscription belongs, first, to the time of the personal reign of Dynamis; secondly, to the time after 17-16 a.c., and thirdly, not to the epoch of the condominium of Polemon and Dynamis, but most probably to the time even after 8 a.c. This alone shows clearly that Dynamis did not die in the year of the marriage of Polemon with Pythodoris, but continued to live and came to reign again as sole personal ruler of the whole Bosporus.

And precisely between 8 n.c. and 7 a.b. the series of coins is issued on which beside the heads of Augustus and Agrippa, the de facto dispensers of life to the Bosporus, appears the humble monogram χ , most naturally deciphered, as Monausen had pointed out already, into $\Delta \dot{\nu} \nu a \mu \nu$, the letters Δ , γ , λ , M, and even Σ being indisputably present and in themselves giving more than sufficient material for a monogram of the name $\Delta \dot{\nu} \nu a \mu \nu e^{\pm i \omega}$

pacum. Yosably Dynamic council the copper immer of the state simultaneously with this aminipal coinage. In my article, 'The Copper Canage of Dynamic and Aspurges' (Indiana of the Scientife Remot Commercial of Taurie, 94(1918)). Unless to prove that this copper was represented by the same with the managram BAE; see on those A. L. Berthier Delagardo. Bullette of the Odeson Society of Hampry and Autopatics, 2213, 119104, and Orieshnikoff, Nanton Callest, ill. (1914).

See these coins in the above moutenest article of A. L. Berthier-Delagarde, Rolletin of the Odeses Society of History and Antiquities, rxix. p. 111 f., Nos. 35-43 and Pie H., III.; Mommess, Greek, d. Rion. Moure 702, footomie; A. von Sallet. Beirrige, atc., 59 f.; but their historical explanation of the coins is measureptable, compare Brandis, P. W., R. E. a. n. Dynamis, wherein the latest works of Mommeson are indicated, especially Eph. sp. i. 272.

^{*} In addition to the statements of Oriests nikoff, I may say that both the above-men tioned series of soins (the gold ones with bonds of Augustus and Agrippa, and the copper ones with the names Comares and Agrippint columbs with the above-quoted series of inscriptions also in that on the obview of the coins of Agrippia and Cassarya a scanning hand is represented in the handgone of a goddess, but with features which are generally likewed to the fratures of Livia. I exempt refrain from studing that I, personally, an reminded by the bead with a diadon. on the coins of Agreppia, not of the features of Livia, with whom, to tell the truth, it has very little in common, but of the head of Dynamia burself on her coin, and of the features of our bust. Therefore I am disposed to suggest that the Agrippians and Canapages ornamental their coins with the head of their quees, adernal with the consecrated handgear of the chird prissess of the principal godden of Planagoria and Pantica-

These facts alone are sufficient to prove beyond dispute not only that Dynamis did not die in the years 13-12 a.c., but that, on the contrary, she arranged matters so us to be recognised as sole sovereign of the Bosporus. The first three inscriptions quoted above second fully with all this. They are explained generally as expressions of the gratitude of Dynamis to Augustus and Lavin for her marriage to Polemon. I consider this to be quite impossible, first, because, as I have stated already, there is no reference whatever in the inscriptions to Polemon, and Dynamis figures as the sole queen of the Bosporus; secondly, because Augustus and Livia at that time, could not have saved Dynamis from anybody or anything; and thirdly, because there happened to be no reason for Dynamis to be thankful: she was the rightful queen of the Bosporns, and Augustus together with Agripps only lessened the scope of her legal rights by placing her under the tutelage of the powerful king of Pontus who was not inclined to consider himself as only a nominal sovereign of the Bosporus, but immediately installed himself on the Bosporus as master and ruler."

On the other side, her installation as the autonomous and sole sovereign of the Besperus constituted a real bounty to Dynamis; it proved her salvation too, if the conditions are considered under which it was made effectual. These conditions, of which we possess some short records,

are in perfect barmony with all the above-mentioned facts.

Strabo mentions Polemon's death twice and speaks of the position on the Bosporus after it occurred. In Book xi. 2, T1 (c 495) he mentions the Aspurgians, a new tribe, of whom Artemidoros of Ephesus, the source from whom Strabo takes his facts, knows nothing, having summerated the Macotian tribes, Strabo sets apart the Aspurgians as a new people with whom the information which he passessed sonnected an interesting historical record, saying as follows: τούτων δ' εἰσὶ καὶ οι Ασπουργιανοί μεταξό Φαναγαρείας οἰκοῦντες καὶ Γοργιαπίας ὁι πεντακοσίοις σταδίοις, οἰς ἐπιθέμενος Πολέμων ὁ βασιλεύς ἐπὶ προσποιήσει φιλίας οἱ λαθών ἀντεστρατηγήθη καὶ ζωγρία ληφθείς ἀπίθανε. Compare xii. 3, 29, where Strabo is speaking of Pythodoris. ἔστι δὲ θυγάτηρ Πυθοδώρου τοῦ Τραλλιανοῦ, γυνη δ' ἐγίσετο Πολέμωνος καὶ συνεβασίλευσεν ἐκείνο χρονον τινά, εἶτα διεδέξατο τὴν ἀρχήν τελευτήσαντος ἐν τοῖς Ασπουργιανοῖς καλουμένοις τῶν περί τὴν Σινδικήν βαρβάρου.

This 'new' tribe, the Aspurgians, mentioned later in inscriptions belonging to the third century of the Christian era (L.O. & P. E. ii. 29, 430,

porus. The great eignificance attached by Augustus to the Breparin troubles is indicated by the number of honours awarded to Agrippa (Dio, I.i.) for arranging affairs on the Bespecies. This shows that Scribenius was not a simple selventurer and that his marriage to Dynamia was considered as a serious danger to Rome, as a threat of a renowal of the spanes of Mithra lates.

We Quite possibly even, the apposition with which Polenon was met on the Bosporus when he appeared there (Dec. 24, 24) may have been traced to Dynamic as its source, and only a direct order from Augustus havest her to make a temporary peace with Polemon and grant him has hand. Augustus and

considered that marriage as the sole and ambine gumanter of peace on the Bos-

431) was probably, as I have indicated already in another place * (compare Latysheff, Horrisa, 103), not a tribe, but the troop of armed followers of King Aspurgos, hought by him from the shores of the Sea of Azov, or from the depths of Sarmatia, who helped him to conquer a throne for himself, and who, therefore, were dominied by him on the richest lands on the Taman, between Gorgippia and Phanagoreia, as his trustworthy supporters and bedyguard. This tribe, therefore, is a geographical navum, the advent of which on the Taman was explained in the source used by Strabe (probably Hypsicrates). ** the description having been incorporated into the above-quoted sentences by Strabe.

Aspurgos undoubtedly ruled the Bosporus, as is proved by his inscriptions (L. O. S. P. E. ii. 36 and 364), his coins, dated, like the coins of Dynamis, according to the era of Pantus, are marked from 10 a.c. by his monogram see and from 13 a.c. by the same monogram with the addition of the title Basiasis (to the monogram see is added the letter 8); this continues up to 35 a.c. Chronological sequence shows that he was the successor of Dynamis (concerning the interval in 8 and 9 a.u. see below). I think that he succeeded her as her fourth legal hasband. The marriage of Dynamis and Aspurgos was probably made easier by the fact that Dynamis herself had Sarmadian blood in her veins. It is quite probable that her mother the wife of Pharmaces, was a Sarmadian woman from the tribe of Syrakes or the tribe of Aorsi. As is known, those tribes supported

" Buildin of the Imper, Archaed. Commitsom, 10, p. 13. Concerning the Asperglans, - the remarks of N. Marr; of the Petrograd Academy, published in the Russian service of this article. As shown by these remarks, the regimen of life of the tribe, protably Sarmatian, to which the Aspurgium belonged was purely framian. Aspurges, probably related by birth to the tribe including the Aspergrams, was followed in his advance into the country of the Bosporon by his young triberman, who formed the troop of his bady guards. Demiciled in the country of the Smill and Karketal, evidently as landowmers. and at the same time as hedyguards of the king (they played the same part later also), they areamed the name of 'Aspurgman,' i.e. sons of Asparges, corresponding to the sumof boyands' in Rossis, and they gave their name to the country occupied by them, shown by Straba and the comperisons made

What was the fink hinding Aspurges to the relies to which the Aspurgians belonged? This link or bond, demonstrated by the emport resoluted by the Sarmatian tribes to Aspurges and his son Mithradates VII., may be most easily explained by the emposition that Aspurges was a Sarmatian king, the

head of the tribe, whose support Dynamia bought by marrying him. Such a supposition scans to be contradicted by an invariation in homour of Aspurgos, wherein he is described as the son of Asundreeless. Comally Asundruches as identified with Asardren (see L. O. S. P. E. ik 38 Such an alteration of a name in an official in cription appears to one week strange indone, and I am quite disposal, with Kieseling (P. W. K., R.R. vii. 1625), to consider Assorbooks as a Sarmathan king who had anthing in common with Asamhos. If this is true, then the erason is plansible why the descendants of Aspurgus occupying the throne of the Bosperus were so fond of giving their some the name of Sauro mates. They transcred the memory of their Sarmatlan descont. It is, or course, however, possible that Aspergia, was a am of Assindres. and Dynamis. The alteration in the name of Amadres may then be explained by the supposition that Amendres was not a Greek, but a Sacmathen, and that his Sarmatian name was Gracies). Learnest consider much an alternative a very conviminit

³⁸ See my article, *Strabo as a Source for the History of the Response, in the collection of articles issued in bosons of B. P. Buzzanit. Kharkalf, 1914. Pharmaces (see Strabo xi. 5; 8 c 506; App. Mithr. 120). Aspurges, quite probably, was also one of the lesser kings of the same tribes—a relation perhaps of Dynamis. Such a relationship, as I have already indicated above, was quite common on the Bosporus in the later Hellenistic times. The last Spartocide undoubtedly were not Greeks, but half Iranian, half Macotic.

In view of all this, I suppose the events to have taken the following course. When Polemon married Pythodoris, Dynamis sought shelter, as Mithradates VII. did later, with one of the neighbouring Sarmatian tribes, at the head of which stood Aspurgos. The hope of conquering the Bosporus. and perhaps bonds of relationship, prompted Aspurgos to marry Dynamis and to give her his energetic support. It is possible, even, that the measures planned by Augustus and Agrippa to quiet troubles on the Bosporus by means of the marriage of Polemon and Dynamis proved unsuccessful, and that misunderstandings between Dynamis and Polemon started in the very first days, leading to a revolt against Polemon, organised by Dynamis, with the help of Aspurgos, in the Asiatic part of the kingdom. This forced Polemon to begin, immediately after his accession to the throne of the Bosporns, a number of military expeditions against the revolted tribes, which led, inter alia, to the capture of Colchis and the destruction of Tanais-thatcity having probably taken the side of his wife and Aspurgos (see Strabo xi. 2, 3 (c 493) and 2, 18 (c 499)), and having refused to submit. Nevertheless Dynamis and Aspurgoe held on amongst the tribes on the shores of the Sea of Azov, and Polemon did not succeed in reducing them by force of arms. He tried then to conquer by canning, maybe precisely at the time when the troops of Aspurgos had already captured the whole of Sindica, but was caught in his own trap and was murdered. This spopes went on from the 13th to the 5th year a.c., with intervals of course. Such an order of events. explains quite naturally the marriage of Polemon and Pythodoris.

The critical moment for Dynamis arrived when Polemon was murdered and Augustis had to decide definitely the fate of the Bosporus. Probably, not minifluenced by Livia, and principally because force was on the side of Aspurgos and Dynamis, influenced also by a promise from Dynamis of total submission, Augustus decided in her favour. Her rights to the throne were recognised as against the rights of Pythodoris, who, with three small children on her hands, could not effectively guarantee the maintenance of the tranquillity so much required on the Bosporus. But the autonomy of the kingdom had to come to an end. The head of Dynamis and her full title do not appear on the coins any more; a humble monogram alone testifies to the fact that, although in the name of Augustus. Dynamis is still ruling over the Bosporus. Under such conditions it is comprehensible that Dynamis had to feel, or to pretend to feel, thankful to Augustus and Livia, and was obliged to emphasise constantly that she was \$\theta \text{Nopomanos}. It is quite comprehensible also that Phanagoria, threatened with the same

[&]quot; It is characteristic that in this monogram no mention is made of the regal title of Dynamis.

fate as Tanais, glorified its saviour, Dynamis, and honoured her by erecting a statue with a glowing inscription, not forgetting to mention that she was φιλορώματος, is simply a vassal of Rome in spite of her descent from Mithradates. It is comprehensible that Dynamis falt obliged to rename two of the cities of her kingdom, changing their names into Caesarea and Agrippia, in honour of Augustus and the late ruler of the East, who at that time was already dead. Simultaneously begins the cult of the Roman emperors on the Bosporus, as is testified by the Kaiaapenov of Phanagoria." Consequently, I take it as proved that, after the death of Polemon, Dynamis was appointed by Augustus to rule over the Bosporus, and that with the help of her fourth husband she succeeded in removing Polemon, who strove to become the de facto master on the Bosporus. Dynamis ruled up to 7 a.D., when she died at the advanced age of about seventy years. Her closest collaborator evidently was her husband Aspurgos. Somewhat similar was the position about the same time of Pythodoris who ruled conjointly with her son, although her son remained loubras (Strabo xii. 3, 29, c 556), but without the royal title.

Such, in my opinion, is the history of Dynamis. It is comprehensible that during her long life she should have acquired a great popularity in her kingdom and that her portrait may have been kept in a temple or in some public building, not only within the closer limits of the kingdom proper, but also in a senshore city, like Bata (Novorossijsk), which recognised her rule.

III.

In addition to this short history of Dynamis, I have now to record the fate of the dynasty related to her.

After the death of Dynamis, Aspurges was not recognised at once as king and ruler of the Bosporus. The direct successor of Dynamis was a person indicated by the monogram out on gold coins. The identity of

have allowed the head of Agripps to appear, while Agrapps was still living on a whole series of coins together with the bond of Augustus. Now, after Agrippe's death such reverence on the part of Augustas towards such a sum of godies as his late collaborator; who had worked so hard for the welfare of the East, was quite comprehensible. It is time that during the life of Agrippa come were minted in Rome with his portrait, so an honour granted to him by Augustus, but this is far from squal in manning with the fact of come being numbed by a ramal kingdom in the names of Augustus and Agrippa and the simultaments adoption, of the names of Augustus and Agripps by two principal cities of that kingdom.

31 1.O.S.P. 在 注 302.

[&]quot; As, undoubtedly, the types of Bosporns: coins at that then were specified, if not in Rotec, then in any case by the representative of Roman power in the East, the new names of cirins, and the types of come so well, had to emphasise the fact of the ramalage of the Respons to Rome. My reconstruction of events and my explanation of their meaning also explain the remon why the head of Agrippa appeared on the Bosperan colus together with the head of Angustin, and why Planagura was remanded. It must be kept in mind that as that time Agrippa was already dead. All those honours, therefore, served only to insportable his memory, which is confirmed by the type of the hear, represonted without any ineignia. Augustus may have placed Agripps very high in his estoun, hat it is a great question whether he would

this person is a matter of conjecture only. I suppose that most probably, after the death of Dynamis, the influence of Pythodoris prevailed again, and the king an may have been one of the sons of Polemon, the same perhaps, who later on ruled conjointly with Pythodoris and whose name remains unknown to as (the other son, Zenon, according to Tacitus, Ann. ii 56, was made king of Armenia in 18 a.b.).

Evidently once more the history of Polemon repeated itself. Aspurgossucceeded in affirming his rights, and from 10 A.b. his monogram appears on coins. In 13 A.b. he receives the royal title, and during the rule of Tiberius he begins to mint coins with his own portrait on the reverse, and with the head of Tiberius first, and then that of Gains, on the obverse.

As we know, Aspurgos had two sons: the cloer was Mithradates, and the younger Kotys.²³ Both names are interesting; the first indicates the relationship of Aspurgos to the Achaemenids, while the second suggests

some link with the ruling house of Thrace.

Those links require an explanation. Mithradates VII., the elder son of Aspurges, insists especially on his relationship with the Achaemenids and Dynamie (see his coin with his head as sun-god and the sun and the moon on the roverse as on the coins of Dynamis, Pl. IV. 7, comp. 4) After his death this tradition is nearly forgotten, but during the reign of his younger brother Kotys and his successors the Thracian tradition gathers great strength, and along with it the Sarmatian tradition mentioned and explained above is insisted upon. The Thracian tradition is indicated by Thracian paines of most of the kings, and by the fact that the kings traced their genealogy up to the progenitors of the Thracian royal house Poseidon and Heracles (through Eumolpus).34 The Achaemenid tendences of Mithradates can be explained only by the influence of Dynamis If Aspurgos was actually the husband of Dynamis and not her son begotten from Asandros, then it must be admitted that Mithradates VII. was the son of Dynamis and Aspurgos, and inherited the Achaemenid blood of his mother. His portraits (see Pl. IV, 8, 10) show that when Aspurgos died he was a grown-up man; it may be quite possible therefore, that he was born about the year 10 a.c., when, as it is to be supposed, Dynamis and Aspurgos were living together. 25

In 30 A.b. Mithradates was a grown-up, perhaps even an olderly, man, while his brother Kotys at that time was still an infant. His name was

tive. I do not consider this argument to be conclusive. A second affects argument tony be found in the fact that the above municipal emblems of Heracles and Fossidon appeared also in timestime of Mithraelass, but this min be explained by the influence of Gepsopyzis, a Thingain assman. It has to be kept in mind also that Heracles played a part in the mythology of the Tamanana pointents, and Possiden was always greatly humaness, in the assemble rithes of the kingdom of Bespores.

²⁵ Son Berthur Dalagarde, 13., pc 112 f., Nos. 46-67, Ph. 111., IV.

Tao, Ann. xii. 18: Latyshuff, Borriesi, tits; Bullet, of the Imp. Arch. Communion, 37, p. 70, No. 7: Mirom, Scythians and Greeks, 366 f.

⁴⁹ See Latysbuil, Bernet, 113, loutoute 1.

There is one argument only adverse to this suggestion: the age of his supposed mother, It must be supposed that in 14-18 m.c., be could not have been younger than forty

Thracian; all his comexions were Thracian, too. Whence did that come? The male line of the dynasty of Asandros and Mithradates did not include any Thracian elements. There remains the female line; the mother of Kotys was undoubtedly Gepacpyris; Kotys has honoured her memory and the memory of Aspurgos, his father, by reproducing on one of his coins the portrait of the king, and on another the portrait of the queen (see Fig. 1).26 The queen's portrait is the same as was represented on the coins of Gepacpyris.27 Beside the portrait of his father Kotys places his usual monogram; therefore the monogram placed next to the portrait of his mother has to be accepted as the monogram of Gepacpyris Precisely the same monogram in succeeds to the monogram of Aspurgos on the gold coins. It must be deciphered, therefore, as βα(σιλίσσης) Γηπαιπύρεως. or B(asilissa) Pynainupes, and the monogram, just as in the case of the monogram of Dynamis, contains nearly all the letters of her name 38 Consequently it appears that Gepapyria was the wife of Aspurger and the mother of Kotys; also that she was a Thracian 22 and belonged to a royal house. This explains why she could have inherited the power of Aspurgos to rule alone in the beginning and later to rule conjointly with Mithradates, the older son of Aspurgos.





Fig. 1.—Com serious of Kotts is Hosour of the Memory of Gergerynia.

If the pretensions of the Polemonids to the throne of Besporus are to be taken into account, it may be supposed that the position of Aspurgos, as occupier of the throne of Besporus, was strengthened after the liquidation of the struggle for this throne between the Asandrids and the Polemonids by means of a marriage of Aspurgos to a princess of Polemon's dynasty. It is known that this dynasty, in the person of Antonia Tryphaena, had already been linked before with the Thracian royal dynasty. The marriage of Aspurgos took place most probably after he was awarded the royal title, i.e. after 13 a.D., but could have been made the condition of a previous agreement.

See the very reliable remarks of Bernhim-Delagards, i.i., p. 47 f., Fig. on p. 48, and Pt. H., Nos. 30-31.

This similarity, as far as I remember, has vave been duly appreciated, although the coin of Kotya, without the slightest doubt, is a literal representation of the sole of his mother (see PL IV, 11)

[&]quot;The same solution of the question is

given by Minns, Southlans and Orecle, 401.

[&]quot;See Tomascholi, Die aller Thruker, 51: the same name appears in an inscription from Turician Heraclea, in the opech of Hadrian, as the name of a lady belonging to a distinguished numerical family; see L. gr. selr. R. p. 1, 783; Stean, P. W., B.E. vii 1927 L.; Minns, I.L. 604.

If so, Gepacpyris may quite easily have been a daughter of Tryphaena and her husband, whose name was also Kotys. Tryphaena was born not later than between 11 and 8 k.c.: she married very young evidently, for in 19 a.D., when Kotys, her husband, died, she was already the mother of four or perhaps of five, children, if Gepacpyris is to be taken into account; one of these children, Polemon II., was appointed king of the Bosporus in 38 a.D. Consequently, about 20 a.D. or perhaps a little later, one of her daughters might have attained the age of fifteen or sixteen.

In the face of all the considerations stated above, I would suggest, with all reserve, that Gepaepyris was one of the daughters of Kotys and Antonia Tryphaema. It is true that tradition does not mention Gepaepyris as one of the children of Kotys, but it did not mention Pythodoris junior either as the daughter of Kotys and Antonia, until quite lately she was so successfully discovered by Dessau. It was quite natural for the royal wife of Aspurgos to succeed to her husband after his death. In 36 and 37 a.b. gold staters were minted bearing the monogram which we have recognised above as undoubtedly a monogram of her name. But Caligula and the Senate did not consider a woman's rule as sufficient guarantee of order, and Polemon II., the brother of Gepaepyris as I suppose, was appointed king of the Beaperus.

Anyhow, Gepacpyris and Mithradates did not concede their rights to Polemon, but it was Mithradates who at that time played the leading part having, evidently, found strong supporters amongst the Sarmatians and Macotians, to whom he was closely related through both his father and his mother. From 39 a.n. he begins to issue coins with his own name instead of the monogram of Gepacpyris, and with the head of Caligula stamped upon them.

The struggle between Polemon and Mithradates was settled in 41 a.p. by Claudius, who, after compensating Polemon, definitely awarded the Bosporus to Mithradates and his stepmother Gepaepyris. But since that time Mithradates had to rule conjointly with Gepaepyris, as is indicated by the coins with the names and portraits of both of them, although Mithradates was still trying to play the first part, as some coins indicate with his name alone stamped upon them. Gepaepyris also tried to mint her own coins. But Mithradates had turned away absolutely from the

construction and explanation of the coins of Mithradates and Gepacypyra. The whole history of Hellenistic coins with the portraits of queens shows that the queens mintest coins with their own portraits either as autonomous coveraigns (Dynamic, for instance, Kabratodt, Ll., 261 f.), as guardians of their sons, or as conjoint mints. Kahratodt is right in anppearing that the coins of Gepacypyris belong to the latter rategory (LL., 263). The coins of Dynamic, acting as guardian, of her hashand Aspurgos are also quite in the Heltralstic tradition.

Desau, Eph. sp. is. 4, not f. It as socialental convolutions does not delude me, I am quite inclined to see a certain likeness between Antonia Tryphaena and Geometryris, as represented by their portraits (see Pl. IV. 1 and II).

On Polemon II. and his fate after his removal from the Despoyne, see Oyseshnikerf, Numisia, Collection, part 1. (the Cilician seins of the king M. Americas Polemon).

⁴⁸ The conclusions of Kalmuedt's work, 'Prance and antiken Milozen,' in Klio, x. (1910), 261 f., agree completely with this re-

tradition of a vassal Bosporus. He was dreaming of the creation of an autonomous kingdom, independent of Rome. On such a basis, quite possibly misunderstandings sprung up between him and his stepmother, leading to the journey of Kotys, sent by his mother, to Rome; where Kotys played the traitor to his brother, and, supported by Roman troops, overpowered and removed Mithradates, after having recognised Roman supremacy himself and having totally submitted to Rome. The minting by Kotys of come in honour of Gepaepyris proves that she had taken his side. She perished evidently during the struggle with Mithradates.

In such wise, I suppose, we may reconstruct the history of the epoch after the death of Dynamis, and such a reconstruction explains all the later history of Bosporus, where the Achaemenid character of the royal power was so greatly influenced by Thracian and local Sarmatian traditions, as

also by the traditions of Dynamis, Aspurgos, and Gepaepyris.

This complex, composite character of the royal power on the Bosporus was clearly realised by the kings themselves. Apart from the alreadymentioned coins of Sauromates II. and Rhescuporis II., on which the king is represented with the attributes of Poseidon and Heracles, the Thracian sympatines of the kings are emphasised also by the reproduction of a series of labours of Heracles on coins of Sauromates II., especially those with the figure of the king on a galloping horse, beginning with Kotys L (see concerning all this the Bullstin of the Imperial Arch. Commission. Soon, however, a strong Sarmatian tendency 49, pt 22 f, and Pl. IV.) becomes admixed with this showing itself also in the names of kings. Of that tendency I have spoken in detail in another place (Bulletin of the Imperial Arch. Commission, 49, p. 1 f.). That tendency becomes stronger and stronger in consequence of the growing Sarmatisation of the whole population of the kingdom of Bosporus. And the Achaemanid character is emphasised at last by the proud title of the kings-Bacileir Barinson.

All these facts, which it would be out of place to describe here in greater detail, are for the first time thoroughly explained by the suggested reconstruction of the history of the kingdom of Bosporus in the period of
transition, this by itself being a proof, and not a slight one, of the correctness of the above-stated considerations.

As to our special object, it is important to note that none of the women who ruled over Bosporus in the first century of the Christian era could pretend to be a descendant of Mithradates except Dynamis. Therefore she alone has the right to claim for her own the bust which has served as the starting point of this study of the fate of Bosporus in the first half of the first century of our em.

M. ROSTOVIZEFE.

[&]quot; Compars Potens Pate. Fr. Aist. gr. iv. p. 185; fr. 8; Latyaherf, Horrisa, 108, 2. The history of the result of Mithradates is told by Tachus, Ann. xii. 18 L.; compare Dio.

^{60, 8;} Plin, N. H. 5, 17. It is characteristic that a last shelter and support were found by Mithradales anought the Sarmatians, as was the case with Dynamis in her time.

A GREEK CARNIVAL.

In the discussion of Greak dramatic origins, a curious passage of Apuleius! has never, so far as I know, been mentioned.

In the second book of the Metamorphoses the hero Lucius describes a feast given at Hypata in Thessaly by his rich relative Byrrhena. After the feast Byrrhena informs him that an annual festival, coeval with the city, will be celebrated next day—a joyous ceremony, unique in the world, in honous of the god Laughter. She wishes that he could invent some humorous freak for the occasion. Lucius promises to do his best. Being very drunk, he then bids Byrrhena good-night, and departs with his slave for the house of Milo, his miserly old host. A gust blows out their torch, and they get home wish difficulty, arm in arm. There they find three large and lusty persons violently battering the door. Lucius has been a warned by his mistress Milo's slave Fotis, against certain young Mohawks of the town—' uesam factio nobilissimorum inucuum'—who think nothing of numdering rach strangers. He at once draws his sword, and one by one stabs all three Fotis, roused by the noise, lets him in and he quickly falls usleep.

On waking next morning he is filled with alarm, but his meditations are cut short by the arrival of the magistrates, with an enormous crowd. Two lictors are ordered to arrest him, and he is solemnly led round the town, followed by the crowd, which is convulsed with laughter. At last he is brought before the tribunal in the forum. The crowd, however, insists on an adjournment to the theatre, where Lucius is placed in the orchestre, and tried for murder.

The three bodies, covered with a cloth, lie on a bier beside him. An elderly man, the chief night-watchman, who had witnessed the brawl, makes a speech for the prosecution. Lucius delivers an impassioned reply, full of vivid details of the fight, but the crowd only laughs the more. Two women then appear, one old and ragged, the other in black, carrying a baby: both wave olive-branches. They lament over the bier, and plead fervently for vengeance on the marderer. The senior magistrate then rises and addresses the people. Lucius, he says, has confessed his guilt, and must be severely punished, but first he must be compelled by torture to reveal his accomplices. The instruments of torture are produced, but

at this point the old woman begs the citizens to have the corpses uncovered. The magistrates concur and decide that Lucius must do this with his own hand, and he is forced by the lictors to pull off the cloth. The three bodies prove to be three goat-skin wine-bottles, stabbed through and through by Lucius' sword.

The growd now bursts into uncontrolled agonies of laughter, and slowly leaves the theatre. Lucius stands dumb with shame, but is at last led home by Milo. The magistrates, in full state, immediately enter the house. They compliment Lucius on his noble birth, and beg him not to take the matter as a personal insult. They explain that a similar performance takes place every year in honour of the god Laughter, and assure him that this god will always befriend him henceforth. They add that the state 'pro ista gratia' has voted him great honours: they have appointed him patronus, and have decreed the erection of his status in bronze. Lucius declines these honours with thanks, affecting an amiability which he does not feel. After refusing an invitation to dime again with Byrrhona, he takes the first opportunity of slinking to bed

Potis then enters with every mark of distress, and confesses herself the cause of all his woes. She explains that her mistress Pamphile (Milo's wife, and a notorious witch) had sent her to the barber's, to collect the hair of a blonds young Bosotian, of whom she was enamoured. The barber had caught her, and in despair she had brought home instead the yellow clippings of certain goat-akin wine-bottles. Pamphile had performed incantations, with the result that the skins had been magically drawn to

the house, where Lucius had met and stabbed them.

Such is the ontline of the story. It clearly fulls into two parts. The story of the witch and the wine-skins is complete in itself—one of the many short Boccaccian tales incorporated in the Metamorphoses. Anatole France has so retold it in a famous scene of Life des Pingonius. The

mock-trial is less casily classified.

It is true that the two stories have been carefully dovetailed. The author was faced with an obvious difficulty. How could this witch story be made the basis of a public joke, without involving the witch! Two inventions solved the problem—the darkness and the watchman. Drinker love might drive any of us to stab a wine-skin on a starless night. Did not Touchstone, when he was in love, break his sword upon a stone, and hid him take that for coming anight to Jane Smile!

Yet the connection is plainly artificial. Lucius fight takes place late at night — fere into tertin nigilia says the watchman—and he is arrested early next morning. The whole mock-trial scheme must therefore have been improvised at a moment's notice. So far as it goes, this rapid improvisation confirms the theory (put forward in this paper) that the mock-trial was an easy adaptation of a immemorial ritual. It seems likely,

^{*} Com suis inagnibus, di U. mind in Don Quesors, part i, an 35. * Corvantée pechape had this meldont m. * iii 3. * iii. 1.

however, that, in an earlier version of Lucius' narrative, the fight with the wine-skins had nothing to do with Pamphile's witchcraft, but was a trap deliberately laid for Lucius by the young bloods of Hypata- uesana factio nobilissimorum inuenum'-aided and abetted by Byrrhena. The present narrative has many touches suggestive of Byrrhena's complicity, especially in the passage describing her attempt to get Lucius to dine with her after the trial." 'Et ecce quidam intro currens famulus: "rogat te," ait "tua parens Byrrhena et conmuni, cui te sero desponderas iam adpropinquantis admonet." ad hace ego formidans et procul perhorrescens etiam ipsam domum eius: "quam uellem," inquam, "parens, iussis tuis obsequium commodare, si per fidem liceret id facere, hospes enun meus Milon per hodierni diei praesentissimum numen adiurana effecit, ut eius hodiernae cenas pignerarer, nec ipse discedit nec me digredi patitur. prohinc epulare undimonium differances". Attempts have been made to emend Lucius' opening words, but the whole speech would seem to come from an earlier version, in which Byrrhema herself was present. There is moreover no trace in the present narrative of this previous invitation, though Lucius does not dispute it. Both changes suggest a deliberate effacement of Byrrhena's rôle, and this impression is confirmed by Lucius' dread and deep horror of her very house '- feelings which the present story hardly justifies.

The author's purpose in so recasting the story is not far to seek. By implicating Fotis in Lucius' humiliation, he gives a plausible motive for her reluctant's confession of her mistress' sorceries—a confession which quickly leads to Lucius' momentous experiment in the Black Art.

In any case, it is clear that the story of the mock-trial may be separately examined. The following points are important.

First, this festival of Laughter, peculiar to Hypata, was annual. Sollomnis dies, says Byrrhena, a primis cunabulis buins urbis conditus crastinus aduenit, quo die soli mortalium sanctissimum deum Risum hilaro atque gaudiali ritu propitiamus. Secondly, some sort of lusus, comparable to the mock-trial, always took place, though its form varied. Ultimam aliquid. says Byrrhena, 'de proprio lepore lactificum honorando deo comminiscaris, quo magis pleniusque tanto numini litemus. Bene, et fiet ut inbes, says Lucius (speaking truer than he know) 'et nellem hercules materiem repperire aliquam quam deus tantus affluenter industret. Nam lusua iste, say the magistrates, 'quem publice gratissimo deo Risui per annus retierticals sollemniter celebramus, semper commenti nonitate florescit.'

These passages might be taken (and were perhaps meant) to imply that the only permanent feature of the festival was some sort of public and enormous joke: a mock-trial to-day, but something quite different in other

^{&#}x27; sii, 12. ' iii, 15. ' ii, 31. ' ii, ii' So F. Haupt reeds ' mbneret,' but Aputleins is find of 'induc' in the supe of 'adapting' a strange form; of ii 22 'norsi-

pelles ... mascas indumnt; iii. 23 ° com sonel anom ... inducci, ° Its use with 'materiese' ia, however, difficult. 21 iii. 11

years. Nevertheless the narrative has features which suggest the presence of more permanent elements.

First, the series of incidents forms a complete ritual drama of the Carmival type. We have first a fight, with the killing of one set of adversaries: then a public lamentation over the dead bodies: then the sudden revelation that the victims are not dead; and lastly the bestowal of honours on the victor. It is almost the exact sequence postulated by Gilbert Murray for the hypothetical "Enhances" celebrations from which he believed that Tragedy developed—"Agon, Pathos, Messenger, Threnox, Anagnorism, and Theophany. Moreover the Pathos takes place off the stage, and is only announced to the audience, and the bodies are brought in on a bier.

I do not wish, however, to press this correspondence, or to suggest that I accept Gilbert Murray's theory of the origin of Greek tragedy.

The fight and the deaths would normally, no doubt, be part of the show. Sham deaths on the stage seem to be common enough in Carnival fights. But in this case they had inevitably to take place off the stage and before the show: otherwise the exploitation of Lucius' brawl would have been impossible. The public might well consent to forgo the fun of the stage fight for the sake of an April fool who honestly thought himself a marderer.

The honours voted to Lucius are not in themselves extraordinary, but the language with which they are introduced emphasizes the religious character of the performance. The magistrates words are worth quoting the late does anctored of the care-tored sum propities ubique comitability amenter nec unquam patietur, at examino doless sed frontem tuam screma menustate lactabil adsidue. At tibi ciuitas omnis pro ista gratia honores egregios obtulit, nam et patronum scripsit, et ut in acre stet imago tua decrenit.

The absence of any "sexual element, such as a ritual marriage, is noticeable; but Lucius as a public butt was manifestly done with from the mamount he saw the mardered wine-skins (though Byrrhena may well have plotted a mock-marriage for him, at that feast which he so wisely eschews). The crowd can scarcely have found much difficulty in improvising that side of the show.

Further, the leading of Lucius round the town has a thoroughly ritual character, as Apaleius twice indicates. Tandem pererrutis plateis omnibus in medium corum quibus lustralibus plamentis minas perienterum hostiis circumforancis explant circumductus angulatim forum ciusque tribunal adstituer. Tunc me per prosencium medium nelut quandam nictimam publica ministeria producunt et orchestrae mediae sistunt. It could not be

¹⁷ Thomas by J. E. Harrison, 1912, p. 341 ff. 16 in 14.

²⁴ P has 'annium & | torom squas' ('& torom' erossed out by a later hand): ◆ has anotherom & interest 'antorom' (read by Hulmi's due to Vollgraff.)

^{*} Lacius ergy with Poals after her neofession (iii. 20) is obviously a private affair, but it crosses with annualing propriety his day's religious adventure.

is HE T

more plainly stated that Lucius is treated exactly like a pharmakos 18: it will be remembered, for instance, that at Marseilles the pharmakos 18; circumducebatur per totam civitatum: and the shadow of crucifixion 28 was over Lucius, head.

Who was the 'done Risus' in whose honour this festival is said to have been held? Byrthena remarks that the Hypatines honour him 'solimortalium.' There is little evidence for this cult, though "! Γέλως appears occasionally as a member of Dionysus' thusos. Plutarch, however, twice mentions the cult at Sparta, associating it, after Sosibius, with Lyenrgus, and και το του Γέλωτος άγαλμάτιον έκεινον ίδρύσασθαι Σωσίβιος ίστορεί (Lyenry, 25, 4) έστι δε Λακεδαιμονίσιε οὐ φάβου μόνου άλλα και θανάτου και γέλωτος και τοιούτων άλλων παθημάτων ίερά (Cleom. 9, 1). Both passages suggest a head and unimportant shrine. The Risus of Hypata 's hodierni diei præsentissimum numen' seems to be Carnival personified, Pack mocking the brief usurpers of Olympus.

The season of the festival is not clearly indicated by Apaleius, but it is certainly either spring or summer, for roses are in bloom. The coming of winter after a world of adventures, is described in the ninth book, 24 and the very first coming of the following spring — nor in ipso oftu—is associated with the reappearance of roses. It is at the spring festival of Isis 26 that Lucius eats the roses that restore his human shape. The magistrates phrase 27 per annua renerticula is not unsuitable to the vernal equinox, and spring is perhaps the likuliest season for Lucius journey to

Thessalv.

Of recorded ancient festivals ** the Hilaria (as Beroaldus remarked) is that most readily suggested by Apuleius' description. This festival took place on March 25th (reckoned the vernal equinox) and is associated by Macrobius, Julian, Damascus and others with the worship of Attis and Cybele. It was an uproarious carmyal **— Hilaribus quibus omnia festa of fieri debere scimus et dict —and included ** free masquerading in every

kind of disguise.

Though the performance described by Apuleius has clearly no direct connexion with Attis, it may easily have taken place at the Hilaria. Native manumeries must have flourished beside imported ritual. Apulaius in himself describes the masquerading revellers who accompanied the ternal procession of Isis at Corinth, in language which recalls Herodian's. He clearly distinguishes these revellers from the worshippers proper: 'pompae magnae...

¹º To come extent Lucius doubles the roles of vactor and victire. He has to be in the immlight, and it is obvious that the Hypatines did not take their ritual very seriously.

¹⁰ Petron ap. Sorv. ad Very Jen. til. 7h.

[■] H. 0.

¹³ Philosix, Imag. 1, 25, and an vasce. 1511, 12. 21 || 10, 111 27-291

^{14 [}K, 32] 18 g. 29, 18 ti. 14.

²³ in 14. Cf. Florida 18, 'solly annua remerticula.'

²⁷ Gf. France, Admin. Attis, and Owess, ed. 3, rol. 1. p. 273; also Clemen, G. Der Utsprung des Karnevala' in Archie für Religiouser va daß; xvii 1-2, pp. 130-158.

Vopes Assol. 1, 1,

Herodian, t, x. 6-7.

⁸⁸ NIVEN

praccedunt anteludia 'they are 'oblectationes indicrae popularium' distinct from the 'pseuliaris pumpa' of the 'sospitatrix dea' Apulems championship of Isis against Cybele would perhaps suffice to explain the absence of any reference to the Phrygian deities at the Hypatine festival.

It is not necessary to suppose the mock-trial = an original part of the festival; it may have compensated on this occasion for the loss of the normal fight, somewhat as the trial scene in the Achievians takes the place of the regular Agon of Comedy.

It seems fair, however, to conclude that the whole story is based on a real spring festival, which Apuleius (or his Greek mode)) may themselves have witnessed: and that this festival included (1) the leading of a Pharmakes round the town; (2) a sham-fight in which one adversary was killed; (3) a lamentation; (4) the revelation that the victim was not dead, and (5) the public bestowal of honours on the victor, or on the revived victim.

The spirit of the nurrative and the name of the God suggest that the festival had become a sumple carmival of fun, semper comments nonitate florescens. It is the more surprising that the traditional features are soplainly preserved.

D. S. Romertson.

the trial seem, though explained by the troy, are eddly remainsent of the Thranian

Carnival describes) by Dawkine in J.H.S. axys. 1905, p. 195 the old woman in rags, the baby, the policemon, and the gentakine.

NOTES ON THE IMPERIAL PERSIAN COINAGE.

[PLATE V.]

The rulers of the Persian Empire, during whose reigns the Persian Imperial coinage was issued were the following!:—

		- Blacker
Darcios L, s. of Hystaspes	0.00	521 - 486
Xorxis L. s. of Dureics L.	03.1	486-165
Argagerges I. Makrocheir, 8: of Xerxes L.		465-425
Xerace II. a of Artaxorxes I		425
Ochos = Dareios II. Nothes, s. of Artnxerxes I.	4-1	424-405:
Arsakas = Arraxerxes II. Mnemon, a of Dareles II.	100	405-359
Cyrus the Younger, a of Dureics II	v 1 P	401
Ochos=Artaxerxes III. s of Artaxerxes II	835	359-338
Arses, a of Arthrorxes III.	200	338_337
Kodomannos = Darenos III., s of Arsanca, s of Ar		
or Ostanes, s. of Daretos II.		337-330
OL ASSIBLES' S. OL PARIOLOG AND		THE WAY

The Persian Imperial comago² consisted of gold coms, generally known to the Greeks as Datics (Δαρεικοί στατήρες), with smaller denominations, and silver coms, generally known as sight (σίγλοι, σίκλοι, σίκλοι, σίκλοι, τίκλοι, τίκλοι τίκοι από δαρεικός was sometimes also used by the Greeks of the silver coins. The Persian name for the gold coins is not known. There can be little doubt that the world Δαρεικός is a pure Greek formation from the Greek form of the Persian name Daragaecansh; just as "fanciful" is a pure English formation from the English form "fancy" of the Greek φαντασία.

word dericks need in contracts of the reign of Nationalus and the false Smerdia, before the reign of Darwice E, as in the phrase he gave in payment the falsats of dry dates and a durits. The meaning of the word, however remains spatic amoretain, and it is not clear that it is the name even of a weight, as Baladon (Terite, it. 11, p. 30) now maintains.

* Hill, Him, threek Coins, p. T.

Beforemore to recont authorities in Enbelon, Fruite, it. it. 44, bee also the genealogical true in Pauly-Wisseres, R.E. i. 4.0, Apanimendate

The Plate are supering this article represents a lew of the more important varieties to which reference is made, subsequent to twice their actual size.

Ch. Pine Cim is

^{*} It has long been known that there was a

The probability is that the daric was introduced by Dareios L*; no speciment that have survived appear, so far as one can judge by style and fabric to be earlier than his reign.

The metrology of the daric and sigles has been subjected to an exhaustive analysis by Reging, which makes it unnecessary to go into details here. He comes to the conclusion that the normal weight of the daric is 84 grm. (1297 grm.), although single specimens are known of various higher weights from 841 grm. (1298 grm.) to 883 grm. (1363 grm.). The average weight is 8354 grm. (1289 grm.). The supposed half-daric does not exist as a denomination, but two specimens of the 12 daric survive, one in the British Museum weighing 0.69 grm., and one weighing 0.71 grm. at Berlin. We shall as a single specimen of 24 of a daric, weighing 0.155 grm. It is difficult to know what purpose these small denominations can have served, except as makeweights when it was desired to make up the value of under-weighted darics.

The specific gravity of seven of the daries in the British Museum has recently been ascertained by the Rev. J. W. Hankin 12. The average is 18-96. If the alloy is pure silver, the average fineness of these daries is 0-981, as opposed to 0-991 for Croessan staters also ascertained from the examination of seven specimens.

The normal weight of the sigles, again according to Regling's exhaustive demonstration, is 5:6 grm. (86'4 grm.); the highest recorded weight is 5:88 grm. (90'7 grm.); the average 5'38 grm. (83'1 grm.). A table of frequency shows the mass of the coins concentrated between 5'26 and 5'30 grm. As smaller denominations Regling gives thirds, fourths (the point of distinction between these two denominations is difficult), sixths and one specimen of a twolfth. He reckons the curious little piece of 3'58 grm. illustrated in Pl. V. No. 5, and indeed other even lighter specimens as full sigioi, but the last piece in his list (British Museum, from Cunningham, 2'93 grm.) proves on examination to be nothing more than an electrotype, though an admirably made one. Mr Newell has a specimen weighing 4'00 grm., which, he says, shows no signs of being plated or cast. The coins of very low weight may, as suggested to me by Mr. Allan, be of Indian origin; certainly

^{*} Hereform tr. 100; Harpozzation, a.r. Angeless top. Schol. Aristoph. Red. 002; says that it was named after some older king.

Klio, viv. 1914, pp. 91 IL, with full toldsof revised weights.

^{*}Borrell (Num. Chr. v), 1843. p. 153) reports that the average weight of 123 gold daries from the Canal Find was 129-4 grm, and that daries found in Ana. Minor are always lighter, between weil preserved, by from 2 to 25 grm, than the lightest of those in the Canal Find.

^{*} Killer, Le. p., 100.

¹⁰ Z.f.N. xxiv. 1004, y. 87, Tut. iv. 5.

² Ibut. Tat. iv. 6. Obe. Hand of King, r., bearded; rev. Insure-

West, Chr. 1916, p. 258.

Mandonald, Huntream Canalogue, in p. 354, No. 4; the King with how and sweed, ere, houd of a satray; therefore not a mirinal imperate cata. Sir Hurmann Weber possessed a quarter alglos of 1 20 grm. (18 ft grm.) similar to one in the British Massam weighing 1:10 grm. To Regling's list of excite, and that in the Prowe Call. (Epper Katal sivi. 2078, Tet. vii., 0.71 gcm.) which is of Type I. (King with spear).

the coin figured in Pl. V. No. 5, came from Cunningham's collection, and is of very peculiar (though not, so for as I can see, of specially Indian) style.

The gold darie, as is well known. was rated at 20 sigloi, the ratio

between gold and silver being as 183 to 1.

It is perhaps necessary to say a word here of certain names of coins which, it has been thought, have some connexion with the Persian system. The Elephantine paper reveal to us the existence in Egypt in the fifth century of a system of reckning by which

1 keresh = 10 shekels, 1 shekel = 4 d(rachmae !), 1 d(rachma!) = 10 hallarin.¹⁶

Keresh is the old Persian karsha. The word ballur (500) seems to correspond to the Assyrian khalluru. Clermont Gamean ingeniously interprets the system as based on a shokel-tetradrachm of the Attic standard, and this may well be right, although the premiss on which he bases his argument is apparently ansound. It is very doubtful whether the hallur was an actual coin, and not merely a money of account; but it would be a convenient unit, since f_{ij} of an Attic tetradrachm was roughly equivalent to f_{ij} of a tetradrachm of the Babylonian standard and the f_{ij} of a tetradrachm of the Babylonian standard and the f_{ij} of a tetradrachm of the Babylonian standard and to f_{ij} of a tetradrachm of the Babylo

Δανάκη or δανάκης is the Greek form of the old Persian damka, and is described by late Greek writers (Hesychius and Etym. Magn.) as νομισμάνιου τι βαρβαρικόν, δυνάμενον πλέον δβολού. Whether it was a denomination of the Imperial Persian currency may be doubted. But there are small coins, such as the 'γ's shekel' struck at Sidon (about 0.89 grm. or 13.8 grm.) and the Armlian 'obol' (about the same weight) which were fairly plentiful in Phoenicis, and would fit the description. The ἡμιδανάκιου which is recorded would, on this theory, be represented by an actual Sidonian coin.

The classification of the Achaemenid comage, in spite of one or two gallant attempts at solution, remains almost where it was in the days when Lenormant 21 vaguely recognised that there were different profiles to be

11 Regiling, lor cht p. 100.

但)102-3.

10 B. M. C. 'Phoenicia,' p. cit.

n Trace de Numism., Rois prince, p. 135. (1800), quoted by Babelio, Perses Achem.

D. Till

D See expensally A. H. Sayes and A. E. Cowley, Aremore Pupper discovered at Assum 1996), pp. 22-23; Chernom Canman, Remail of Arch. Orient. vi. pp. 183 ff.

^{*} P.S.B.4 xxv. (1903), p. 206 What proceeds by khalture means, however, whether it is a small decommetion of weight or coin, some to me not to be quit made out.

In the Hobrest shekel which Jesephus (Ass. Int. iii S. S) equates to four Attic directions in the Tyrian shekel of his time which the Romans tariffed at time dimarit (see Hultach, Metr. Script., Index, a.e. states, 3).

[&]quot; Hultmin, in Pauly Williams, R.E. Iv. 2.

Secrepentally Robelon: Les Peruss Achémonides (1893), pp. xi-xviii: 'L'isomographisei assi origines dans les types monitures green' (Rev. mon. 1908, and Mélanges Numeroutiques iv. pp. 254-269); Traité des Mounaiss greegers et romaines, Part II. L. (1907). 257-64; ii. (1910), 87-71. J. P. Sax was for a time working at the peoblem, and communicated his views to Babelon (Perus Achém. p. xiii. n.) and Hond (letters in 1891)

distinguished in the heads of the kings. Barelay Head was content in 1877 to say of the daries (and the same must apply to the sigloi) that 'some are archaic, and date from the time of Darius and Xerxes, while others are characterized by more careful work, and these belong to the later monarchs of the Achaemenian dynasty and to describe Lenormant's attempt as a 'refinement of classification.' Thirty-four years later where the recognised that there were successive modifications in the physiognomy of the king which suggest rude attempts at portraiture; notably the beardless head, presumably of Cyrus the Younger (Pl. V. No. 3). The latest pronouncement on the subject of the beardless king as Cyrus on various grounds.

That there are various modifications, which enable us to divide the daries and sight into groups, is clear; but how far these are to be regarded as 'successive,' and how far they are merely due to local differences of work-manship is another question. It must be remembered also that the dating of other Persian works of art, such as seals, by their 'portraiture' alone is no more secure than the dating of the coins. Had we a dated series of scale, or of other objects with representations of the kings, it might be possible to obtain some evidence for the dating of the coins; although even than it would be necessary to remember that the traditions in one art are not always the same as in another.

The daries and siglor fall into four very distinct series, according as the Great King is represented as:-

I. Carrying strong bow in L, spear in r. (Pl V, Nos. 1-6).

H. Carrying strong bow in L. dagger in r. (Pt. V. Nos. 7, 10, 11)

III. Shooting with the bow. Pl. V. No. 12).

IV In half-figure, holding strong bow in L, two arrows in r. (Pt. V. No. 13)

22 How Name 1 p. 828;

¹⁴ P. Gardner, W.L. of April Colonys (1918), p. 19).

23 These men (1) Several of the Person kings came to the throne young. [But now of them was to closely in touch with the tircoles, and therefore so likely to depare from the conventional bearded type; and the little mask of Pan on the reverse of the com m quantian is purely Greek in style. [(2) 'The extreme sacity of the some is a strong reason against supposing that it was import by Cyrus, who must have used gold solue in great quantitles to pay his Greek murceuaries, who received a darie or more a month. [But there is not remem to suppose that Cyrus wanted more coins for his Greek matemaries than other Perman kings for their yest armire. The rarrity of ancient colon is also too much a matter of change to serve as an argument. (3) The weight of the example in Paris (a 40 grm., E30 5 grn.) some to point to the period of Alexander the Great. The daties. on the contrary, which are shown by the atain of their reverses (see below) to belong to the out of the Persian period, are not distin gnished by high weights; and liegting (Kile). ziv. p. 104) limbs the average of the double darios (which everybody admits to be of the time of Alexander the Great) to be 10-59 group. which yields a darie of S 30 grin, or less than the occitionry Persian darie. A table of frequancy (intervals of 0.05 gran) constructed from Regling's that shows the highest point (1) specimens out of 48) between 15 65 and 16 %; grm., which would place the normal weight a tribe higher than the average. The weight of the Paris specimen is, if anything, in favour of a pre-Alexandrine date.

Edinage of Lyslin and Person (1877), p. 28.

Within the first two series the following groups may be distinguished. I give Babelon's attribution in square brackets after each.

Series I .:-

- d. The King's figure is slight, his head inclined a little forward [Dareios L] See Pl. V. No. L.
- B. Kidaris usually low; beard more flowing [Xerxes].

 The distinction between A and B is often yers difficult).

17. Coarse features, nose large, leard shaggy [Artaxerses L].

Phis Similar to C, but more definitely barbarous, or connected by reverse this with barbarous obverses.

D. Sliin figure with straight mose [Darcios II.]

E. Eye in profile, nose short, cheek full, beard long, V-shaped fold in from of kandys [Ariaxerxes II]. See Plate V. No. 2.

F. Beardless; kidaris without points (7): kandys of rough material [Cyrus-the Younger]; mask of bearded and horned Pan, incuse, at side of mense of reverse. See Plate V. No. 3, where a associate reproduction of the reverse is illustrated, so as to show the head of Pan in relief.

G. Short figure, large head, square beard, straight nose,

H. Short, squat figure, carls at side of beard; nose usually aqualine: V-shaped fold in front of kandys; fabric of coins usually small and circular. See Pl. V. No. 4.

Hhis Ends of hair curling; comparatively short beard; tabric of coin ment and circular. See Pl. V. No. 5.

K. High relief: straight nose; long beard. Reverse pattern of wavy lines approximating to that of Babylonian double-duries. See Pl. V. No. 6, and compare the reverse with that of No. 14, a double durie.

Series II .-

d. Body without indication of waist.

(a) With symbols on reverse. See Pl. V. Nos. 7-9.

(b) Without symbols on reverse.

B. Generally similar to A (b) but with pellets indicating ornament on undersides of sleeves of kandys.

(Barbarons in style.

- Coarse style; waist indicated; large nose; exergual line, where shown is dotted [Arses] See Pl. V. No. 10.
- E. Neat style; three or four annulets on breast of kandys; exergual line plain; fabric of silver resembling Series I. H or Series III. [Arses and Darcios III.] See Pl. V. No. 11.

Series III, and IV. [both given to Artaxerxes III, by Babelon] seem to allow of no division into groups.

The last two series are much rarer than the others, and differ from them in fabric, being as a rule round, instead of oblong in shape, and of much matter

workmanship. I have noticed among these no instance of barbarons style, and only two cases of punch-marking, and these punch-marks are placed on the edges instead of on the faces of the coins. The style of the coins of Series III, seems to be characteristically Person, and there can be no probability that they were made in the portions of the Empire amenable to Greek influences. There is one group (H) among the coins of Series I, which approaches Series III, in neatness and roundness of fabric, and the same is true of Group E in Series II. Daries corresponding to Group H of Series I, are very scarce, and the Series III, and IV, consist entirely of silver, with the exception of the tiny gold-coin from the Montagu Collection now in the British Museum) and its follow at Berlin. Possibly this carries of the Empire from the others.

In addition to the four ordinary series of Persian Imperial coins there exists a single gold coin. with an obverse of Series I., on which the usual incuse reverse is replaced by the design of a ship's prow; on the side of the prow is the sign if, which is explained as the Carian letter i or en. Eabelon suggests that it was struck by Meinnon the Rhadian when in command of the Persian fleet off the Carian coast in opposition to Alexander the Great. In style it certainly seems to belong to the latest period of the Persian

coinage.

When we attempt to determine the classification of the coimage according to periods, we find that the fixed or more or less fixed, points are few. One is offered by the heard of 300 daries which was discovered about 1830 in the Canal of Xerxes at the foot of Mt. Athess together with about 100 early Athenan alver tetradrachus; in the finest possible condition. It is a legitimate conclusion that daries of this group are probably not later than the time of Xerxes. The Paris Cabinet acquired 0 out of the 125 which passed through Borrell's hands and these Babelon assigns to Xerxes, with the sight which seem to belong to the same group. One would like, before using the Canal provenance as a guide to classification, to be sure that these mine coins are representative of the hourd. In any case, it hardly seems proven that they are necessarily of Xerxes and not of Dareios I. They are certainly of worse workmanship than those which Babelon would assign to the earlier king, but especially in dealing with a series like the Persian, it is unsafe to assume that the better coins are always the earlier

Another point which possesses a certain degree of stability is the

Dabelon, Person Johnson, p. 15, No. 124,
 P. H. 21, Praise, u. H. 26, Ph. LXXXVII.
 For other views, see P. Gardiner, Had. of

Ancient Coinage, p. 334.

^{**} Babelon, Press Achem. p. 5, No. 04-Traise, Pl. LXXXVI. 10, discribes non-Assolier was in the E. F. Weber Collection (Hirach Katul. vol. 4407, Tal. LVIII., where it is described as having a crass massle as symbol in field of obverse).

H. P. Borrell, Num. Chem. ri. 1843, p. 153, none 56.

In H. P. Borzeil's sein (Sotheby's, 1852, July 12-21) there were only 6 deries their 426-31), all from the Caimi Hourd, and noon of these was acquired by the British Museum. It is all course quite possible that ograms specimens afterwards acquired from M. J. Borzell and Woodbouss and Sabatier may have originally one from H. P. Borzell

identification of the daric of the beardless King (Pt. V. No. 3). Babelon has made out a good case for the attribution of this care piece to Cyrus the Younger II; although it may seem rash, when we are dealing with so small a piece, to assert that the figure 'a le visage empreint d'un caractère de douceur et d'intelligence qui convient plutôt le un Gree qu'à un Asiatique, while the statement that the kidaris is not surmounted by spikes, like that of the ordinary kings, but resembles the 'toque' of a magistrate, might be upset by the discovery of a specimen on which the top of the kidaris was fully preserved. The workmanship of the coin is certainly more careful than usual. A curious fact may be noted about the reverse; the small horned and bearded human mask is which stands beside the original die; it is in exactly the same position on both known specimens. It is clearly the mask of Pan or a satyr.

A third fixed point is provided by the general resemblance to the double duries of the reverses of the group with the figure in high relief (Group K of Series I. Pl. V. No. 6). The reverse shows a tendency to be filled with a pattern of wavy lines, which is on the point of developing into the well known pattern of the reverse of the double duries (Pl. V. No. 14). Since it is now generally admitted that the double duries belong to the Alexandrine period, these duries of Group K must belong to the last Persian king. Dureios III. A number of sigloi, with the ordinary type of reverse, resemble these duries in the relief and treatment of the obverse. There are also a certain number of duries (e.g. one in Mr. Newell's Collection) which, although they do not show the peculiar reverse, resemble the K

When however, with the help of these more or less fixed points we attempt to classify the coins within the lines drawn between them, the difficulty of distinguishing groups, and, when they are distinguished, of saying which are the older and which the earlier, still remains as great as ever. Some of the groups—such as Babelon's first three groups attributed to Dareios I., Xerxes, and Artaxerxes I.—merge into each other almost imperceptibly. The coins are frequently so badly struck that it is impossible to say whether two are from the same die, or whether one is copied from the other; and, if the latter is true, the second coin may well belong to a later group than the first.

It would seem that the only direction in which a solution is to be expected is the recording of finds of duries or sigloi with other coins

duries in the purely Greek style of the portrait.

which have been raised to this hientification, see above, p. 119, sore

The only two specimens extent appear to be shown in Paris and London, which are from the same dies on both sides. Rabeling groups with them a sigles (Praise, Pt. LXXXVL 18) which is, to pulge by his exprediction, so badly were that the beardlesness of the figure can hardly be assured.

II Perso debim, p. Tr. On the objections

so Pabelon's contradiction of Head's perfectly correct description of this hould a perhaps due to his having looked at the comsideways; although even so it is difficult to see a boar's hand in the object.

susceptible of being dated. So far only two or three such finds have been noted or at any rate properly described. Four daries were included in the Avola Hoard presumably the earlier of the two hoards which go by that name," and are therefore to be dated before about 360 B.C. The only one of these daries which has been published belongs to the small but well-marked group called E in this Catalogue, and is of a type attributed by Babelon to Artaxerxes II. Minemon. Another darie, from the same reverse die,24 was included in a hoard of Cyzicene staters 35 which Head thinks was probably deposited not much later than 412 a.c. Six however (in one of his letters above mentioned) dated the Cyzicenes of this hoard 'before and after 400. All the coins illustrated by Head balong to von Fritze's 200 Groups II. b, c, or III. a, b, except the coin with the two eagles on the omphalos," which von Fritze places in his Group IV.; his upper limit for that group is about 410 n.c. Wroth places the same type in his third period (480-400 n.c.). We may not unreasonably assume that if it belongs to von Fritze's fourth group, as is indicated by the coarse granulation of the reverse, on which he bases his classification, it must come fairly early in the group, probably before 400 s.c. The evidence of these two finds, taken together, goes to show that the daric in question was earlier than about 400 n.c. Six remarked that this particular type of darie 'a été recueilli en nombre dans la grande trouvaille de Cyzicenes' in question; if that is so, and all were in as good condition as the one illustrated by Head, it is probable that this type of daric belongs to the last quarter of the fifth century, but that it was struck by Dareios II. Nothos (424-405 n.c.) rather than by Arturerxes II. (405-350 R.C.).

A second Sicilian heard, from Mammanelli near Avola, has recently been described by P. Orsi. It has unfortunately not been secured in its entirety. It contained from 300 to 400 gold coins, viz., about 100 hectolitra of Syracuse, about 100 pentekentalitra of the same mint, and about 100 daries. Of these last Orsi illustrates one and describes five, attributing them all to Artaxerxes I. Makrocheir (465-425) they would therefore belong to our Group C. To judge, however, from the casts which he has kindly sent me, it would appear that one of them is of our Group E, with the distinct

as See Miss Baldsein in Zeit für Nam.

extil 1915, pp 4-d on the two hoaris. It is supposed that what was by Littlecke taken for a single heard, deposited about 320 s.C., was really made up of two, the surface of which, containing the gold coins, was buried about 200 s.C. One of the duries in question (there were four) is illustrated by Löbbecke in Zeit für Nem xvii. 1890, Tal. ci. (wrongly numbered v.) I. Recently this field has been discussed by P. Orai in Atti e Mem dell Detrat de Nem iii. (1917), pp 6 ft.

^{*} This reverse die, sport from its die biochive markinge, is recognisable by the

granulation at one and of the mans. Sir Reymann Weber processed another durie from the same reverse die, and one was said at Sotheby's sain, 7 Dec. 1915, Lot 1:

⁴⁸ R. V. Hustl, Num. Chem. 1876, p. 286, Pt. VIII, 1.

^{**} Nomisma, vit.

Witnes, for, cit. Tal. VI. 32

⁴⁶ Atti e Mam. dell' Lit. Ital, di Num. 11. (1917), pp. 1-30.

³⁶ He manmer Rabelon's classification to be substantially sorrect.

reverse already noted in other specimens of that group fabove, p. 123, note 34). The other four are two from one pair of dies and two from another. Neither pair seems to me to belong to Artaxerxes L. i.e. to our Group C: in their comparatively refined style they seem to me to be of a distinct type, approximating to E more closely than to any other; they show the V-shaped fald in the kandys. The first according to Orsi, was buried in the last years of the lifth or the first years of the fourth century; the daries show more or less signs of wear. The weight of each of the five coins is 83 grammes.

So far the evidence does not violently contradict any proposed classifications. But when we come to the heard of coins described by E. T. Newell," we obtain some important data, which throw a new light on the question. It will be observed that in the classification given above the sigloi of Series II are divided into four groups (excluding purely barbarous coins); on two of these groups (A. B.) the body of the king is represented without any indication of the waist (e.g. Pl V, No. 7); on the others (D, E), the attitude is less stiff, the waist is marked, and more detail is displayed in the drapery (e.g. Pl. V. No. 10). Now in Mr. Newell's find only the waistless groups were represented 41; and the evidence of the other coins in the heard proves conclusively that all the sigloi present were struck before about 380 a.c., the date of the deposit. Further, to judge by their worn and punch-marked condition, it is unlikely that any of them were struck later than the fifth century. This suggests that the 'waistless' varieties belong to the earlier kings, before the time of Cyrus the Younger, and also that the other varieties of Series II belong to the fourth century. Further confirmation of this view comes from the hoard published by J. G. Milne, the which consisted entirely of sigloi of Series I. of the earlier, sixth-fifth century, types (Groups L A and L B m our classification); and sigloi of the 'waistless' types of Series II. Yet again, out of eight coins obtained at Panderma, from a small hoard said to have been found at Miletopolis, seven are of the earliest types of Series I. (A or B), and one of the waistless type (Series II. A or B, much worn)42 Finally, Mr. Newell provides a similar slight confirmation of the early date of the 'waistless' type. Of four siglor which he bought at the same time from an Armenian dealer in Paris, and which, together with about a dozen others not bought, evidently came from a find, one is of the "waistless" type, and the other three all of early types.

⁴ Num. Chron. 1914, pp. 1 ff.

⁽⁴⁾ A siglos which Mr. Newell received from Dr. Haynes's family after the publication of his article, and which by its appearance no doubtedly belonged to the 'Gilician and,' was also of the 'waistiess' type.

⁴² Num. Chron. 1916, pp. 1 ft.

^{**} Mr. P. W. Haslack, who obtained the come from a money-changer, a not considere that the superment of their presentations are

corroot. The eight coins utill available for examination passed into the possession of Mr. E. S. G. Robinson, who presented two at them to the British Museum. Only one of the eight is without a punch-mark, and on no less than aix of the others we find the same mark. No. Ske in the Table, p. 126. It would appear therefore that this mark was impressed by the person who had the soins not long before they were bursed.

This appears to exhaust the present possibilities of chronological classification. It seems clear that types (i) King with spear and (ii) King with dagger continued in ase throughout the whole course of the comage. and that types (iii) King drawing bow and (iv) King in half-figurewhich are unrepresented in the finds of early sigloi-belong to the later period of the coinage, since they approximate in fabric and style to those varieties of Series I and II, which are not represented in the finds of early sigloi. The comparative rarity of punch-marked coins of this series admits of explanation if this chronology is adopted, and if, as I believe, the punchmarking was chiefly done in the Eastern Mediterranean." It was only towards the end of the lifth century that the Persian Satraps began to make issues of any importance, and it was only in the half century from about-386 to 383 that these issues were so numerous as to supply the wants of the population under satrapal control. Until then sigloi must have circulated in Asia Minor and Syria in great quantities and it was in this earlier period, before the rise of the great satrapal comages, that the punch-marking was chiefly done. But in the fourth century the import into Greek lands of the Persian sighti must have been greatly diminished, the demand being supplied by the local and satrapal money. Hence these later sigloi are not punch-marked to anything like the same extent as the earlier.

Here we must have the question of chronological classification. As regards the attribution of the various groups to individual kings, apart from the slight indications which have been noted above, the less said the better.

Mr. Milne has been the first to call attention to the extremely interesting groups of come with small symbols, sometimes in relief, sometimes incuse on the reverse. These all belong to the waistless variety of Scries II. (Pt. V. Nos. 7-9), and are therefore, if our chronology is right, of the fifth century. Mr. Milne has made the very plausible suggestion that this lion'shead (Pt. V. No. 7) may indicate the mint of Sardes. The sightinitial to Pt. V. No. 8, with what appears to be a curiously stylized lion's scalp, can hardly be separated from the others. Of the symbol on the coin illustrated in Pt. V. No. 9, I have no explanation to offer.

The Panck-Marks (Fig. 1). There can be little doubt that these were impressed on the coins by local bankers or money-changers, who were also doubtless responsible for the stabbing and cutting of the coins with the object of testing their purity. One would have thought that a single cut

⁹ This in alm Babulon's views Person Achten pa st.

With the exception of the darm attribated to Cyron and, possibly, of one styles.

Which must be strictly distinguished from the immes symbols mentioned above, which form part of the reverse dies. For convenience of reference, the principular which occur on come which I have been able to examine, together with a few others drawn from mate, are collected in the socompanying

table (p. 126). It must be remembered that these marks are usually very imperiodly impressed, and it is consequently often impossible to recognise with certainty the design, or to draw it correctly. The drawings here given, shough not by a professional draughts man, are made with a view to showing as more than is visible on the original or can be reasonably inferred by comparison with other specimens.

would have been sufficient for this purpose, but some coins have been reduced almost to fragments. In spite of the occurrence among the punch-marks of

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Fig. 1.—Present wants as Pristan Sumon.

designs which suggest coin-types, such as the tortoise (No. 100 in the table) and the Aeginetic reverse design (No. 62), it is improbable that any of the

punch-marks were impressed by mint-authorities, although it is a reasonable conjecture that these Asginetic-looking punch-marks were more probably impressed in Aegina than elsewhere. Such a head as that in No. 112 cannot have been designed by any but a Greek artist. (I beg the reader not to judge of the style of the original by the drawing.) The tetraskeles (No. 27), triskeles (Nos. 22-26 and 186) and monoskeles (Nos. 18-21) seem to point to Lycia; and this is partly confirmed by provenance, although the characteristic contral ring is absent from the tetraskeles and triskeles. Babelon has noted the letters OE! which are found on Lycian coins. Certain marks, such as the varieties of ankh (Nos. 147-151) and forms like Cypriote signs for bu, si, and ro (Babelon, Perses Achem, Pl. XXXIX, 8, and our Nos. 121-123), or Phoenician letters gimel, you, pe, mem (Nos. 124-132) seem to indicate the ceasts of Cilicia and Syria and Cyprus as a source. Rapson to it is true, held twenty-four years ago that some at least of the punch-marks were Indian in origin, and included Brahmi and Kharosthi characters. But of the former, his yo, if turned upside down would serve for the Cypriote si (No. 121), his my is more probably a more or less mutilated aukh, his kha is the Lycian monoskeles (Nos. 18 f.), his pa, if turned apside down, may be the Phoenician p (No. 128); his jet may be the Greek E (Nes. 117-119). He is inclined to think that his go (No. 140). is more probably to be completed as the symbol No. 81; but, as a matter of fact, it must be conceded to him that the form as given is correct. This exhausts his list of Brahmi characters. Of the Kharosthi his mg is, he admits, in some instances at least, probably a crescent (Nos. 45 ft.); his one is a kind of flower (Nos. 70 ff.); his mater is really the symbol No. 173, his ti may equally well be a Phoenician mim (No. 132), while his do and lar (Nos. 133 ff.) are not sufficiently characteristic to afford strong evidence on either side. Newell 49 has added one or two more to this list of alleged Indian characters. No. 138 in our table he compares with Kharosthi to, but there is nothing very close to the form in Bühler's table." No. 139 drawn by him without the complete loop on the right hand) he compares with Kharosthi gha; as here drawn it comes much closer to Britani cha (upside down). His Nos. 32 and 16 I take to be floral in origin, and less angular than he has depicted them: his No. 24 (our No. 141) is not really very like Brahmi khi; nor do I quite see with which Brahmi sign he would identify his No. 31; his No. 37 is hardly characteristic enough to serve as hasis for argument. On his coin No 94 he says there is an elephant punch-mark, but this is not visible on the cast before me, unless his No. 12 is meant for it; and that appears to me to be a geometrical design of some kind.

that the fittle table limitating Mr. Newell's article in Non. Ofron. was re-drawn in England for purposes of reproduction, and may not always do justice to file intention.

Stehnehn Talein auf Ind. Paliographie (Grandress der Indo-Arn-hen Philologie und Albertamakanite, 1896).

at Person Achem, p. xi and p. T. No. 58.

se January of the It Asiatic Society (1885), pp 863 ff. I naderstand that he to longer maintains this view, at least in its entirely.

A Nam. Chem. 1914, pp. 27 f. I have drawn show which are included in our table from casts of his come. It should be said

At the best we may grant that there is occasional coincidence between the punch-marks and the forms of Indian letters, and that it would be very satisfactory if their identity could be proved, since many marks otherwise uninterpreted would acquire significance. But we may still ask for more evidence that these Indian letters were used to any extent by the Indians in marking their own silver coins. Other marks they used in plenty, but

these apparently not at all, or only to a very limited extent.

Of the three symbols which Rapson instances, the 'taurine' (Nos. 40, 41) would give most support to the Indian theory, if it could be shown that this astronomical symbol was peculiar to India. But there seems to be little doubt that it is not so confined and, indeed, that its home was rather in Eastern Asia Minor, Northern Syria, or Cyprus Nost 60 and 58 on the other hand might be Cypriote or Lycian letters (though they are more probably mere patterns); and the triskeles, though it may be nearer the Indian than the Lycian form, is too widely diffused a symbol to carry much force in the argument. It is worthy of notice that three specimens marked with the triskeles probably came from Lycm, since they were once in the collection of Daniell and Graves, and one marked with the tetraskeles came from a Suverniote collection. The tetraskeles occurs on one of Mr. Robinson's little find from Miletopolis. Finally, of all the sigloi in the British Museum, only five come from Conningham or the India Office, and of these it is significant that only one is punch-marked. There are in the British Museum no other sight of definitely Indian provenance, though there are many from Persia.

A day spent in examining carefully the collection of Indian punch-marked coins in the British Museum, while the punch-marks on the sigioi were still fresh in memory, the drawings for the accompanying table having just been completed, has left the distinct impression that the two sets of punch-marks have nothing whatever to do with each other. There may be certain curious coincidences as between a mark on one of the Indian coins and No. 153, although the Indian example does not show the booked handle of the blade (or stalk of the leaf, whichever it may be). But the point to remember is that the leading characteristics of the two sets are quite different; the forms chiefly characteristic of the sigles, such as the floral symbols Nos. 68 ft), the ankh (Nos. 147 ff.), the bull's head and its derivatives (Nos. 105 ff.) occur with extreme parity or not at all on the Indian coins; and forms characteristic of the Indian series, such as the Stupe, or Chaitva, do not occur on the Persian.

back (No. 42) is also probably a linear symbol see Rossbor's Lex. 4.9. Sis, 906.

^{7.7-----}

^{**} Mrs. Manufor refers, in this countexton, to the Cypro-Mycennau cylinder, J. H. S. and (1991), p. 169, Fig. 147. This is an example of the orb memorahid by a cree-on, which is doubtless the origin of the cymbol; and this crescent resting on a globe seems to be of Eabylonian or Mesupotamian origin. The parachemark with the two creecusts bunk to

^{*!} As a uniter of fact. I do not find on the Imbun pumb-marked coins to the British Museum anything corresponding exactly to the form on the rigid except in the case of No. 22; Expen appears, from his remark so p: 806, to have not with the anneadifficulty.

It would probably be possible with a little ingenuity to find a number of analogies between these punch-marks and signs in various other scripts. Thus Nos. 52, 58, 117, 120, 124, and 133, and Mr. Newell's No. 37 (inverted) could all be interpreted as Lycian spiritus asper, sonant m, t, ε, λ, σ and τ respectively and some of the same, of course, as pure Greek; or again No. 142 as Himyarite μ, while Nos. 30 and 143 both suggest Himyarite symbols. But it seems idle to lay stress on these resemblances, which may be purely accidental.

G. E. Hna.

by the other hand the alleged Lycian ? Babelon, Perses Aches. p. 41) is really No. (Fellows, Coins of Amster Lycia, Pl. VIII. 2; 172 in our table.



MIKON'S FOURTH PICTURE IN THE THESEION.

SINCE the first publication by Robert! of the magnificent krater from Orviete, which is one of the proudest possessions of the Louvre, its style has been brought in connexion with Mikon, more on account of the figures half disappearing behind the rocks, than on the rather problematic assumption that Mikon's Argonauts might have inspired the artist in the more extensive picture on the side of the vase opposite to the death of the Niobids. This last scene (Fig. 1) is perfectly clear, and would not be in need of any new commentary if Robert had not committed the error of taking the arrow, near the handle, as fallen (freccia cadata per terra), holding this to be a piece of thoughtlessness, rather uncommon with Attic ceramists, and if Hauser had not gone even further, blaming the painter for so absurdly making an unerring god shoot an arrow and lose it. Both of course are wrong, and it is the more surprising that he who understands what escaped Robertnamely that Apollo shooting and Artemis taking a new arrow suggest to our mind the pressure, though unseen, behind the hills of the missing sons and daughters of Ninbe-fails to understand that the painting is not a poor extract from a larger composition, but that it was precisely the perhaps somewhat extravagant intention of the artist to suggest more than he shows.

Annali dell' Inscituto, xlv. 1882, p. 273.

^{*} Furtwangler und Reichhold, zu Tat. 108, S. 250.

This acrow indeed answers, if anything, to the proverb: $\theta \tilde{a} \tau \tau \sigma \nu = 0$ Bourgs; as Mikon in the Poikile still painted the eye and the helmet of his Butes, while the Niobid, lying dead in the valley, is only shown to us by the single line of the weapon that inflicted the mortal wound. So instead of being a piece of radiculous thoughtlessness this little stroke speaks volumes.

It is not only to defend the vase-painter, or Mikon as his model, from unmerited blame, that I claim his right to be understood when he suggests the unseen to our mind's eye. It is principally because we shall need this understanding of his intention to elacidate the meaning of the unexplained

picture on the other side of the vase " (Fig. 2).

Robert was the first who supposed this scene to be taken from the story of the Argenaut's painted by Mikon in the Anakeion at Athens and briefly described by Pansanias in those words. Mikow & 7000 merà Thoopos & Kolyous alchoras eai of this yeardis à atorio maliata & Araoton sai 7000 through exe tous Araoton. As it did not escape his notice that Pansanias seems once more to refer to this picture when he mentions the names of the daughters of Polias; Mikon & 6 of Coypados Asterioresis as elvas sal Artivôny ent tais electro artis é respect, he assumed that what we have would be only part of the more extensive original.

It has been objected by others that as neither the horses of Akastos nor the Peliads are to be found in our scene and nothing points decisively to the Argo, not to speak of Iolkes, it brings considerable pressure on our

good will to accept this combination.

Nor have Percy Gardner' or Girant's bettered this relation in transplanting the Argonauts to Kyzikos or Lomnos, which completely severs all connexion with the painting of Mikon in question, even though they can account for the absence of the Argo herself. Girard's view has the advantage of harmonising with the helplessness which seems to bind the greater majority of the men, here assembled, to the spot; and he certainly has an advantage in this respect over Hauser, who wishing to remain in closer contact with Mikon, would make us believe that these heroes are thus inactive spectators of the battle of Marathon, as by a very unsatisfactory argument he maintains Mikon may have depicted them in the famous painting, which others on better grounds give to Panainos. Nevertheless Hauser is right when he adduces the absence of the Boreads against the views of Girard.

We should only have to confess our ignorance if Gardner had not shown the way, though he has not followed it up:

I have to thank the publishers, F. Bruckmann A.G. at Mimith, for their kind pecussion to reproduce this plate.

^{* 1.} ATILL L.

^{*} vin. h. 2

^{*} LH.K = 1880, µ 117.

^{*} Renne des Rembes Greeques, 1894; p. 360; Monuments Green, 1895, p. 7.

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But before following up on the line be has indicated, let us once more consider what the work itself tells us. The scene takes place at the top of a rocky slope, behind which one single figure, only visible to the middle and reduced in size by the distance, lifts up his hand in astonishment at something that is hid to our sight by the rocks. In a gap between these, Herakles stands, γυμνός, that is to say with neither helmet nor enirass, shield nor greaves, though he is armed with club and bow and sword, bears a lion-skin and wears a laurel wreath in sign of victory. Around him stand, in addition to his patron-goddess, who never leaves him, three men, of whom one hands him a helmet, one takes up a shield, a third grasps at a lance, we may suppose with the same intention. At his feet sits a young man



with despondent look, who with his right hand holds his leg as if he were tired of sitting, like Hektor in Polygnotus Neknia. — καθεζόμετος ἀμφοτέρας έχει τὰς χείρας περὶ τὰ ἀριστερὸν γόνν ἀνιωμένου σχήμα ἐμφαίνου. Under him his comrade, to whom he beckons with his left arm, rises, a couple of lances in his hand, not without effort, from his more prostrate situation. At the left a man, whose shield is charged with a coiled serpent, turns away very much in the manner of the Thracian who, while his comrades give themselves over to the magic of the music of Orpheus, goes away in disgust.

⁴ Pantanias, x xxxi. 3.

^{*} Filtreth Windylmonnsprogram, Furbalagler, t. il.

The scene is closed on the right and the left by two youthful heroes, wearing piles, one of them holding a horse: these are generally thought to be the horse-taming Kastor and his brother Pollux. As they belong together, it seems probable that we have to see the locality as a hollow, the order in which the figures appear having to be considered as a circle; nearly closing here, as on the semicircular bases of the time at Olympia and Delphi

Now Gardner has recognised in the two sitting youths Theseus and Peirithous, and he is right. Only if in Hades the shades find their punishment in the performance during eternity of the impious act committed during lifetime, we are not justified in reversing this idea and hoping to find there alive in the scheme that characterises their eternal sufferings.



So if Peirithous is sitting here for ever and Thesens rising from a cest that seemed endiess, it can only be the valley of death that Hemkles enters, and those he meets can only be shades, with the exception of Athena, who stands by him under the earth as she stands by Thesens at the bottom of the sea on the cup of Emphronius.

And if amongst these the Dioskuri take a prominent place, do not let us forget that Pindar about the same time dwells at length on the touching legend of brotherly love, that made the heavenly Pollux give over half his Olympian life to Kaster and partake during the other part of his existence

in the informal world, as Zeus sums up in these words: 10

^{*} See also the crot is Pyth, xi wh nev way 'Oxigeno. In New 2, 1081

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Εί δε καστγνήτου πέρι μάρνασαι, πάντων δε νοείς άποδάσασθαι ίσον, ημισυ μέν κε πνέοις γαίας ὑπενερθεν έων, ημισυ δ' οὐρανοῦ ἐν χρυσέοις δόμοισαν.

It is true that in the painting of Polygnotus, Theseus holds two swards, both his own and that of Pairithous: 11 Θησεύς μέν τὰ ξίφη τὰ τε Πειρίθου καὶ τὸ ἐαυτοῦ ταῖς χερσὶν ἀμφοτέραις ἔχει, ὁ δὲ ἐς τὰ ξίφη βλέπων ἐστὶν ὁ Πειρίθους, but on a vase from Ruvo at Karlsruhe 12 the arms in the hands of Peirithous are lances, and so also on the other 12 where the intruders are being bound. The poetic source upon which the painter has drawn will have had the word ἔγχος, which is used by the opic writers to designate a spear, by the tragic poets for a sword.

It is hard to put names to the other figures, but it would not have been easier to name those in the Nekuia of Polygnotus if it had come down

to us without inscriptions.

One would like to be able to recognise at least Meleager, as we know of his intercourse with Herakles in Hades, but neither the youth wearing a helmet, to whom the hero turns nor the bearded man with the petasos, who, even as Peirithous, so clearly shows the broken eye and the distorted face of those that, eating dust, grind their teeth, nor any other has the least token that might characterise him as such.

They are as anonymous as the souls of the miserable humans Herakles

meets according to the words of Bacahylides: 11

έυθα δυστάνων βροτών ψυχὰς έδάη παρά Κωκυτοῦ ρεέθροις.

The only emblem that may give us any clue is the snake on the shield of the man who turns away. This dragon might indicate Kadmos or Jason, but I fail to see what reason the founder of Thebes should have to be angry with the hero who was the glory of his town, or the leader of the Argo with the man he left behind.

Iphitos has perhaps the most cause for wrath against Herakles, as the otherwise spotless here has sinned gravely by the murder of his guest, but though the serpent would well fit with his chthonic nature. I am afraid this was not so apparent to the contemporaries of Mikon as to us. The same reason prevents me from thinking of Enrytus, Hippokoon or whatever the different names may be in different regions of those who fell in the expedition of Herakles against their strongholds with the exception of Periklymenos, whose name Robert has used in describing this figure. He too is a personification of death vanquished by the rescuing might of the god-like here, but death lurking in the bite of a snake, the grip of an eagle, the

⁽¹⁾ Paul X, xxix, 0.

¹⁷ Arch. Zeit. 1884, Tal. 18; Roscher iii. Sp. 1786; Abt. 12.

¹⁸ Arch. Zeit. 1884 Taf. 15; Roscher iii.

Sp. 1781-2, Ala. 10.

¹⁶ Y. 63-1.

¹⁵ Netwis, p. 40%

sting of an ant or a bee or the poison of a plant, the weight of a falling tree. So at least I understand what Hesiod must have meant, according to Eustathus' commentary on the Odyssey to and in the lines preserved by the scholiast on Apollonius: 17

Περικλύμενον τ' ἀγέρωχον δλβιον, ῷ πόρε δῶρα Ποσειδάων ἐνοσίχθων παντοῖ. ἄλλοτε μὲν γὰρ ἐν ὀρνίθεσσι φάνεσκεν αἰστός, ἄλλοτε δ' αὖτε πελέσκετο, θαῦμα ἰδέσθαι, μύρμηξ, ἄλλοτε δ' αὖτε μελισσέων ἀγλαὰ ψῦλα, ἄλλοτε δεινὸς ὅ φις καὶ ἀμείλιχος. εἴχε δὲ δῶρα παντοῖ οὐκ ὀνομαστά, τὰ μιν καὶ ἔπειτα δόλωσεν βουλῷ 'Αθηναίης.

So the serpent may point to Periklymenes and Robert may have hit the mark though we must needs remain somewhat diffident as the emblems on the shields are rarely so speaking as a swan on that of Kyknos. The serpent on the shield of Manelaos in Polygnotus' licoupersis is considered by Pausanias is in a rather far-fetched way to be a remembrance of the portent in Aulis.

If it nevertheless seems probable that this scene is played in Hades it is no longer difficult to suggest what it is that the warrior outside (whom I presume to be Iolaes, the faithful comrade who followed even to the gates of hell, though no further), sees that excites his admiration and that he suggests to our mind by his wonder. It is of course the vanquished Kerberos, as must have been evident to all spectators, who were aware of the circumstance of this most famous victory, which had to be obtained unarmed (that is to say without shield or iron arms), but was won, according to the scholiast on Homer 19 by the hero using his lion-skin as a shield, and flint-pointed arrows, according to others with his club. The artist who thus reminds us of the wondrous feat, which he does not want actually to show. makes it more obvious by the returning of his arms to Herakles. If he does this in a somewhat north way, seeing that they are given back here by the inhabitants of the land of darkness into which the victor has only just forced his way, we must understand that he could hardly do it in any other, and that this is certainly not in discordance with the methods of his age, as Robert has shown by similar examples.

Now, if we reconsider the question whother we know of a painting by Mikon that would answer to our purpose, we will find exactly what we want in a suggestion of Brunn. who, with his thorough knowledge of the style of Pausanius, suspected a fourth picture of Mikon in the Theseion at Athens, where, next to his famous deeds in the struggle with Centaurs and Amazons and the first exploit of Theseus (known to us principally from this passage.

Bacchylides, and some vases), his end would have been depicted.

It cannot of course, be his death at Skyros which he means, but only

^{14 1085, 01.}

¹¹ ad 1. 156.

IL S. ERVL S.

[&]quot; H. r. 350.

[&]quot; Ribt and Lord, p. UL

[&]quot; Genchichte der Ge. Kunntler, ii. p. 34.

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the descent into Hades which he has in view, if we look at the words of the nather **: ἐς δὲ τὴν τελευτὴν τὴν Θησέως πολλὰ ήδη καὶ οὐχ ὁμολογοῦντα είρηται ὁεδέσθαι τε γὰρ αὐτὰν λέγουσιν ἐς τόδε ἔως ὑψ Ἡρακλέσινς ἀναχθείη. This is all he would say about the painting in the alevenly way he treats the antiquities of Athens. What he further adds does not pertain to Mikon's work, but is meant merely as a historical rectification of the miraculous and hence incredible logend which the painter has followed. The adventures of Theseus for our author have nothing supernatural. We find him enhemerising the descent into the Acherontic regions by locating them in the Thesprotian Kichures in like manner, if not quite as clumsily, as Plutarch ** does when he makes Aidoneus into a Molossian king whose wife was called Phursephone, whose daughter was Kore and whose dog Kerberos had to fight the suitors of his child.

What the literary source may be from whence Mikon took his subject will be difficult to decide, since we know so very little about the Herakleis and Theoris which Aristotle tells us were of so poor artistic merit, and no more about Hesiod's poom mentioned by Pausanias thus; καὶ ὡς Θησεύς ἐς τὸν "Αιδην ὁμοῦ Πειρίθφ καταβαίη. One thing only scems evident, viz. that the Hinyas upon which Polygnotus must have drawn, and which, according to Pausanias." did mention both Theorems and Peirithous in Charon's furry hoat, cannot come into question, as our painting lacks all Oxphia colour. Panyasis has the best claims, since he speaks of the heroes as not bound but grown to the rock, only this rock is shaped into thrones: Harvagas δὲ ἐποίησεν ὡς Θησεὸς καὶ Πειρίδους ἐπὶ τῶν θρώνων παράσχοιντο σχήμα οὐ κατὰ δεσμοτας, προσφίεσθαι δὲ ἀπὸ τοῦ χριντὸς ἀντὶ δεσμῶν σφίσιν ἔψη τῆν πέτραν."

At all events, if we consider the exposition Pottier is has given, with no less wit than common-sense, of the way in which Theseus supplanted his friend Herakles in Attice, we shall have to reckon with the existence of a jinguistic production of national poetry, which could not be very much

antiquated in the time of Mikon.

The story itself is one version out of many of the same phenomenon. Thesens, born from the sea, be its name Algons or Poseidon, and the clear sky, Aithra, makes his first appearance, lifting up the dark rook, with a glittering sword and golden sandals. He divises into the deep water for the ring of Minos, to reappear with the wreath of Amphitrite. He descends into the Labyrinth, and having slain the ball of Minos, the judge of the dead, sleeps with his daughter, the all-hallowed Ariagne, Cretan Ariadne, till Hermes leads him away. and he leaves her for her shiring sister, Phaidra.

Study read in the Institut de Prance, Oct. 25, 1900 (Revue de l'Ast America et Moderne).

ras Panie, t. kval. 4:

⁼ Themes, xxxl, 6.

⁼ Pesties, viii.

P IX. XXXI. 5.

x, cavin 2

¹⁰ Paul L. Trin. O.

at s Pourquoi These fur Fann st Herrnle .

S Mon. of. Inc. xi. Pl. XX. The vine permits no doubt that the sleeping woman is Arnalus, and the movement of Thesein that he is stenling owny.

He goes down to the regions of Hades for the rape of Persephone, and is brought back to daylight by Herakles. He throws himself from the steep

rocks of Skyros into the sea-

Why should Mikon out of these four parallel tales about the setting sun and its passage through the vale of darkness have chosen the first and the third! The second may have been thought antiquated, and the last not a very sympathetic double of the first. The descent to the regions of Acheron allowed the painter a no less large scope for his fancy than the meeting in the realm of Poseidon.

And if we see his four pictures in the light of Pottier's political insight we find them glorifying the young Athens as a child of the sea depicting its struggle against the barbarians of Asia in the strife with the wild Centaurs and the battle with Oriental Amazons, no less than the similar deeds of the Done Herakles; and symbolising the most adventurous act of the State, the help lent to the hopeless enterprise of the revolted Ionian, which leads ultimately to the capture of Athens by the inexorable enemy, from whom it is only released by Dorian help. It looks as if Kimon, with his Lacedaemonian sympathies, sought with the help of such a myth to impress this fact on the Athenian mind. It is he who brought the pretended bones of the here to Athens and arranged his holy place there, as Pausanias has it ό μετ δη Θησέως σηκός Αθηναίοις έγένετο ύστερον η Μήδοι Μαραθώνι έσχου, Κίμωνος τοῦ Μιλτιάδου Σκυρίους ποιήσαυτος άναστάτους, δίκην δή τοῦ Θησέως θανάτου και τὰ όστα κομίσαντος ès 'Αθήνας. So it will have been this statesman who deliberated with the painter about the subject he had to depict:

Mikon was the older contemporary of Polygantus, a fact I have been awan of as long as I have been interested in these questions, and which I am happy to find at last correctly set forth by Klein.30 The paintings on the walls that surrounded the so-called tomb (planned, be it about 473, according to the last surmise or in 468, the date accepted formerly) must be anterior to his other works which we know of, as in the Anakeion, where Polygnotus, and in the Stea Poikile, where at least this painter and Panainus worked beside him. Von Wilamowitz and Robert a paintings in the Delphian Lesche, no doubt rightly, between 458 and 447. and so the relation between Polygnotus's Nekuia and Mikon's deliverance of Theseus must needs indiente that the former was dependent on the latter. Still, it is worth while to add to Cardner's comparison of Thesens and Peirithous, which gave us the key to the problem, the already observed more formal likeness of the Perrithous to the Delphian Hektor, and that of the man with the petasis to Antiloches with his foot on a rock; 'Apriloxos τον μέν έτερον έπι πέτρας των ποδών. This last motif, which found its development in sculpture only at the hands of Euphranor, Skopas, and Lysippos, seems to be an invention of Mikon, as we find it also in an

⁼ Larif 6

Mikon and Pansines, Mikos and Pansines, Jakrbuck iter Institute, xxxiii. 1918.

P. F. Tf.

¹¹ Honorische Untermehangen, 2234 19:

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Amazon 55 on an early white-figured lekythos, which must be a reminiscence of one of his Amazon-battles.

The man, again, who turns away from Herakles, finds an analogy in the Klymene of the Lesche of whom Pansanias 34 says that she turns her back to Prokris (παρὰ δὶ τῆν Θωίαν Πρόκρις τε ἔστηκεν ἡ Ἑρεχθέως καὶ μετ' αὐτην Κλυμένη, ἐπιστρέφει δὲ αὐτῆ τὰ νῶτα ἡ Κλυμένη), because as the Nostei relate, the latter was the first wife of Kephalos. One would rather expect: ἐπιστρέφει δὲ τὰ νῶτα αὐτη τῆ Κλυμένη as it is not Klymene but Prokris who should feel wronged. And this is partly suggested by the manuscripts, which have these words, with the exception of the two last, as I give them. Be this however as it may, the turning away is the motif that serves us for comparison.

Lastly I mention, though not without some reserve, the feet of Kallisto resting on the knees of Nomin. 7005 πόδας δὲ ἐν τοῖς Νομίας γόναστα ἔχει κειμένοις, which seem to remind us as Gardner has observed, of the feet of

Peirithous hanging over the knee of Theseus.

Of even more importance than these signs of influence, though they may to a certain extent confirm our view that we have a copy of Mikon's Hades before us, is the comparison of the planning of his locality as we have understood it, with the much larger disposition of the different circles in Polygnotus's Orphic hell.

But I am nearly forgetting that, to my knowledge, no attention has yet been drawn to the plan of this first inferno known to us as a forerunner of Dante's.

If we analyse Virgil's descriptions of the different sections through which Anchises goes, we find, according to Norden, 5 between Acheron and the innermost Hades, first (v. 323 Cocyti stagno alta . . . Stygiamque paludem), the amount the uninterred and the infants, then (v. 427) in limine prima the Bearobáraras, those that died a violent death, as: (v. 430) has vacto, the falsely condemned; (v. 434) proxima deinde . . loca, the suicines; (v. 441) lugentes campi, those who died of love, and (v. 477) area . . . altimathe heroes that fell in war. In Hades itself are three distinct regions: for those that suffer eternal pain, the Tartara (v. 543); for the eternally blessed, the seles beatas (v. 639), and thirdly for those that go through forgetfulness before entering upon a new existence, Lethaeumque domos placidas qui praenatat amount (v. 705).

The regions of Polygnotus are far from identical, but there is a likeness even as there is some affinity to Nardo Orcagna's Dantesque hell in Sta Maria Novella at Florence. In the Lesche the outermost circle is that of utter darkness and contains besides probably Eurynomus, the demon of decay, none but those that suffer eternal punishment, the parricide, the sacrilegious and Tityos to the left, Sisyphus and Tantalus to the right. Parts only of this region fill up the corners of the painting, separated by both ends of the segments that are shown of the following ring, a kind of

limbo for those who like Elpenor remain unburied, who like Oknos have spent their lives in idleness or who, missing the salvation of the mysteries, have struggled for good in vain, carrying water in a cracked vase. This stretch is crossed by Charon's boat that carries the initiated. Farther in to the right and the left the lands of sorrow appear, througed with women who suffered for love. The innest circle is peopled by the heroes who fell in war. It may be observed that even Thesens and Peirithous sit by them, not amongst the great sinuers as in Virgil. Finally a quasi-central position is allotted to the poets and specially to Orpheus.

This disposition must have been indicated by lines tracing the hilly slopes and accentuated by a colour-scheme that probably sufficed for a disposition into large groups, without preventing the eye from finding an equal interest everywhere, in the corners as well as in the centra; a decentralising principle of composition justly preferred for paintings intended to decorate a

large surface, that is to be seen from a short distance.

Mikou, no doubt, had a less complicated scheme, but still it is remarkable, in view of the continuity of tradition in the development of uncient art, that his composition shows even the same circular disposition as we have observed in the place he gave to the Dioscuri.

All these reminiscences, of course, would not by themselves prove our cuse-painting to be the deliverance of Theseus by Herakles, but they go a long way to sustain our conclusion, remined by other means that Mikon

painted Hades before Polygnotus

On the other hand, the painting in the Theseian, whether shortly after 473 or 469, shows the closest relation to the Hoplitodromos of the Somzée Collection (Taf. III.-V.), so nearly akin to the Pelops of the Olympian pediment, which Furtwangler has suggested was copied from an original in the same pose as the statue by Mikon of Kallias the pankratiast, who won his Olympian victory in 472. He says is Der rechte Unterwan war erhoben und eine Stütze verband ihn mit der Brust. Das passt für ein Halten von Lanze oder Schwert durchuns nicht. Ich kann mar duse Haltung nur erklären, wenn die Rechte etwo den Gestus des Adorierens machte

So the man who holds out the belief to Herakles has nearly the same schema. Still closer is the resemblance of our Pollix, his right hand on his hip, his left holding the lance, to the Olympian Ocnomaus, who will not be much later than the Kallias. This type occurs, once more in the Apollo of the coins which Themistokles struck as lord of Magnesia after 463,38 where for the lance is substituted a branch of laurel. It is evidently another example of the art of Mikon. Herakles must be compared to the Zeus of the pediment.

It remains to say a word about the well-known krater from Bologna.

ev. 617: sodob neterinonque estebit tofelix Thereir. It seems worth while to remark that Virgil does not full into contraduction with himself when he cites (v. 122). These is amongst those that return from

Hades alive. In the time of Assess Theores was dead once more and this time for good.

⁴¹ Samuelany Samete, p. 5.

³⁹ Hill. Historical Greek Coins, p. 45. Pl.

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with the reception of Theseus at the bottom of the ses " (Fig. 3). Jacobsthal " is surely right in so far as the style of this work in every line and form and ornamental detail is certainly more than a generation posterior to the work of Mikon, but he goes too far, it seems, in postulating the necessity of the influence of another great artist for the composition in its general outline: His principal argument is that, though kings and heroes and ordinary mortals had been used, more than a century, to cat and drink in a recumbent position no gods but Dionysus and Herakles followed their example, and that the rest of the Olympians maintained the ancient and more dignified custom of sitting at their meals till the times, let us say, of the young Parrhasius. The remark is interesting, but the sole example he cites to corroborate this opinion-vases of Sosias, Oltos, Euxitheosare, as he himself admits, anterior to Mikon. An innovation must make a beginning at some point or other. There is no reason why the great maturalistic innovator, Mikon, should not have been the first to make Poseidon, at home, drink at his ease the cup that so rare a page as Eros mixes for him

On the other hand, the general disposition of the whole composition is so perfectly in the same spirit and the same form as the deliverance of Theseus that they obtruded themselves on the notice as counterparts even before a closer connexion was stablished. I need hardly give further details to prove this in respect of the place the figures take among the rocks, their distance from each other, and their size in relation to the dimensions of the picture, however important these be in determining the style of a master. Nor need I dwell at length on the place taken by the team of the rising Eos " behind the mountains that quelose the sanctuary of Posculon parallel to that of Iolaus; nor on the representation of the sea as a narrow channel in the foreground and background tripod-bearing columns indicate the shores that compass the water) resembling the confines of the infernal world; nor on the contest that is fought and won unseen behind the rocks, even as the stern of the ship of Minos shows amught of his quarrel with Theseus, which made him throw his ring into the deep. But I will draw attention to the schema of Possidon, which forms on the left the exact counterpart to the rising Thesens on the right; he reclines with one leg drawn up, the other outstretched, his right hand reaching high at his trident as the left of Thesens does at his lances. The cardinal difference is that Thesens is all movement, however lothargic it may be, and well-directed action, while l'oserdon is harrily more than a nearly superfluous 'pendant' imagined for the sake of balance. Both enhanced as they are by still life Theseus by shields and a helmei. Poseidon by a tripod and an oinochoe and krater, take a prominent place in the compositions and so, I think, go far to prove that they were intended to counterbalance each other. As Pausunias mentions

²³ Mon. of Last. Suppl. T. san.

[&]quot; The an and dem Meast-grand (Leipzig, 1911), p. 14 ff.

⁴ She has been wrongly interpreted as Helico as may be sum by her bair net and the presence of the morning star.

them last, after the long-continued battle with the Amazons and struggle with the Contaurs, which must have occupied the other walls of the temenos that enclosed the sekes of Theseus, I would suggest that they were to be seen on either side of the door as the visitor turned to go out.

Be this, however, as it may, the exact correspondence goes a long way to prove that the Releasing of Theseus has preserved to us the truest reproduction we possess of a work of the master in a copy of the picture which Pausanias mentions in such a desultory way, and that the Theseus krater is hardly less reliable in its composition, though not in the execution. So it seems worth while to add a few words to elucidate what remains unexplained in this

picture.

The presence of Nereida need not surprise us at the court of Posendon and Amphitrite, but one asks eneself what the shield-like musical instrument in the hands of the Nereid farthest to the right may mean, tall one is reminded of the deep sound made by the waves heating on the beach and takes it for granted that this drum must indicate the ségara \(\eta\chi\)perca. As she sits at the end we might call her Aktaie. As to the presence of Eros here, I see nothing but a reminiscence of the origin of Theseus, Love mixing the \(\eta\chi\)para that made Poseidon the father of the young here, on whom the sea-god casts his eye with pride as Triton bears him in his arms, ready to receive the crown of reses extended to him by Amphitrite, a marriage gift which she got herself from Aphrodite. The case-painter's intention of drawing reses is not to be mistaken if one thinks of the single roses of the ancients.

We know Greek painting by the scanty notices of the authors by the figured vases, and by the reflections in Etruscan tombs and Greek basso-ribevi. There is no doubt that the Greek painters began by figures that stood out dark upon a lighter ground, and as we still find this method continued on the white lekythor, cups, and kraters, we have no reason to doubt that generally speaking, a similar effect will have been usual in the pictures of these times. We may even observe here and there in red-figured vase-painting an evident indication of this fact, but we give a single instance out of many, convincing enough in itself. Helma, in the weil-known scene, which probably rereals to us the art of Aristophon, shows her profile standing out clearly against her loose hair, like a Florentine quaturocento head in three-quarter on a light sky. This artifice has no sense on a black surface, such as the vase has.

The coloured figures on a lighter ground of the antique porce reliefs give place to the lighter bright-coloured marble designs on a darker blue as early at least as the Delphian treasure houses of the Knidians and Siphnians. Pheidias and his school in the chryselephantina or marble appliques on the

Genesia), Fig. 10,

or Pacchylales, rvil. 114 ff.

of Brit, Man. Catalogus of the Greek Cains of Carne, Con. Rhodes, etc. Pl. XLI, 1-7. Wickhaff, Ramirche Kunnt | Dio Wiener

^{**} Mrs. Gregor, B. Pl. 3, 24; Overbock, Gall. Her. Bild. i. Pl. 26, 13; Michaelis, Parthenon, p. 139.

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black Eleusinian stone of the basis of the Zeus or the Parthenos and the Erechtheion frieze seek a similar effect to that aimed at by Panainos on the dark blue screens between the legs of the Olympian throne, and the vase-painters give the same relation to most of their work, the red-figured compositions. In later times the white figures on dark-blue glass, as in the Portland vase, continue this effect and the Greek portraits from the Egyptian tombs generally stand out on a dark background.

Even the painted sarcoplagus at Florence has, on the short sides at

least, a dark background.48

I have long entertained the notion that the ἀμυδρὰ οὕτω δή τι τὰ εἴδη τῶν ἰχθύων—σκιὰς μᾶλλον ἡ ἰχθῶς εἰκάσεις, ⁴⁶ and the ἀμυδρὰν καὶ οὐδὲ ολῶκληρον εἴδωλον ⁴⁷ in Polygnotus's Nekuia do point to fishes and the image of Tityos in outline, black in the black darkness of Orkos, similar in technique to the black figures that are not rare amongst the coloured designs on black, as the ram of Odysseus ⁴⁸ or a Sappho in black dress. ⁴⁸

There is nothing in the painting of the krater from Orvieto to speak either for or against the idea that Mikon should thus first have made visible the darkness of Hades, making his figures stand out clear on the black rocks. But here the Theseus krater again comes to our aid. Above the dark waters of the deep the sky is dark, and though the dawn kindles the horizons, the morning star is shining bright. The tripods on the columns in the original were perhaps still flaring as beacons in the darkness of the right. Or does their being burnt out show that daylight is appearing?

Not improbably we should call the dark colour, used here by Mikou, blue, but in the technical language of the fifth century there is, as I hope to show elsewhere, no attempt to distinguish this colour from black, which is the general term for the cool and dark group of tones. In opposition to kension stands pêxar as light and bruin do in the terminology of the Dutch

painters in the seventeenth contury.

I have only to add here that according to Anaxagoras 20 the true colour of water is \(\mu(\lambda)\alpha\).

Theseus has been thought to be a solar hero, as well as Herakles, which would be a sufficient reason for his supplanting his model. One would almost be inclined to suppose that either the painter or his authority was aware of this fact; for if the time of the action is fixed at the point of day, the artist wishes to remind us rather of the reappearance of the young here from the deep waters, than of his hardy leap into them, even as he does not show us the adventurous descent of his riper age into the nether world but his release from the bonds of darkness. If in the hymn of Racchylides, when Theseus goes down to the palace of the gods, the Neroids, the waves shine like fire and around their crests gold-braided fillets whirl,

Perrot et Olitpliez, x. p. 242:

Diela, Popularitaire, p. 294, Frage 97, 98.

Annali d. Inst. 1873, p. 252; J.H.S. 1883, Pl. XXXVIII.

^{*} Pane z zvill I.

or Pane & XXIX. 3.

[&]quot; Guarte Archestopique, 1888, Pl. XXVIII &

⁴ Dn Witte, Descr. d. Coll of Ant conoccurre a Chatel Lumbert, Pl. HI Perrot of Chipiex, x p. 241

άπο γὰρ άγλαῶν λάμπε γνίων σέλας ῶστε πυρός, ἀμφὶ χαίταις δὲ χρυσεόπλοκοι δινεύντο ταινίαι,^{λι}

he himself comes unwetted out of the sea a wonder to all, and the gifts of the gods shine around his limbs.

μάλ' άδίαντος έξ άλδς. θαθμα πάντεσσι λαμπε δ' άμφι γυίοις θεών δώρ'. 20

J. Six.

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PAINTED SARGOPHAGES DECOVERED IN KERGE IN 1900.

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ANCIENT DECORATIVE WALL-PAINTING.1

[PLATER VI-IX]

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The history of ancient decorative wall-painting has yet to be written. The attention of the whole world was attracted by the wonderful discoveries made in Pompeii, and indeed for many years Pompeii stood for ancient decorative wall-painting in general.

That Pompeii so completely avershadowed modern ideas on the evotution of this art is due in great measure to the fact that at Pompeii it had found a wonderful exponent and explorer in the late Professor August Man. His book dealing with the Pompeian decorative mural painting at once became a classic and influenced profoundly text-books and popular works on the history of ancient art and customs.

Two facts, however, should be borne in mind. First, that the decoration of Pompeian houses illustrates the art of one epoch only—the Hellenistic and the earlier Roman Empire, except for a few examples from a still earlier age, and those not before the third century B.C. Also it should be remembered that this art at Pompeii can be taken as characteristic only of Italy and indeed only of Southern Italy; it does not follow that it developed on the same lines in other regions of the ancient world.

Secondly, that besides Pompeii we have other equally important and complete series of remains of decorative wall-painting, which, like Pompeii.

The text of this article represents a and Historical Society.

provide magnificent illustrations of the history of maral decerative painting in the ancient world.

This art is not illustrated everywhere, as in Pompen, by the mural decorations of heantiful houses; sometimes it is found in the decoration of vaults. But it should be remembered, once and for all that the scheme and system of decorative wall-painting never changes whether used to embellish the dwellings of the living or the habitations of the dead:

I shall recall the most important series of mural decorations known to us, partly those belonging to the Pompeian period and partly those of an

earlier or later period.

I shall not dwell on the long series of mural decarations of Egypt, beginning with the pre-dynastic period and ending with the Saitie epoch. Their history has not been handed down to us by anyone, though it would have been instructive, not merely for the history of decorative art in the East. Neither shall I dwell on the monuments of Babyloma, Elam, Assyria and Persia, or the valuable remains of the Aegenn and Mycenean palaces and vaults on the islands and in Greece. Even up to the present time no proper research has been carried on with regard to these remains. I will only point out the most important series of decorations within the bounds of the Greek and Italic world.

Attention is drawn here first of all to the numerous decorated vanits of Etruria, which illustrate mural painting in Greece from the seventh century a.c. to the third century a.c. If these are carefully studied together with the remains of the decorations of accient Greek and Italia temples and the valuable series of painted Greek sareophagi beginning with the Cyprian and Clazomenian and ending with the Etruscan and Sidoman (metuding Etruscan urns) and if to these is added the series of Greek painted vases, studied from the point of view of a decorative scheme, and the series of Greek painted stelae from Bosotia, Thessaly Phoenicia and Egypt, then, I consider, it will be easy to outline the history of Greek mural decoration from the archaic to the early Hellenistic period.

In studying the epoch immediately preceding the Pompeian period, we are aided by a magnificent series of decorated Macedonian vaults of the fourth-third centuries a.c., by some tombs of Palestino and by an equally valuable series of Companian, Apolian Samute and Latin tombs, which should be studied together with the decorated vases of that period, found in

those districts.

With the third century are begins the series of mural decorations of Pompeian houses. We should not, however, study them, like Man, only in Pompeia. For the earlier stages of Hellemstic mural painting we have now, besides Pompeia, a time series of mural decorations of private houses in Deles, as well as in Priene, Thera, Pantikapaion, Olbia, and a number of most interesting decorated vanits belonging to the earlier Hellemstic period in Alexandria and its neighbourhood. This material should be studied together with the history of vase-painting, which, during the Hellemstic period, from being monochrome became polychrome, and together with the

history of painted glass vessels. We are greatly aided in this by various

early examples of mosaic on walls and floors.

For the later Hellenistic period there is not so much material. Yet, besides Pompeii, there are the painted grave-stelae noted above, and a certain number of painted vaults mostly belonging to Syria. Phoenicia and Palestine. We must not forget that in this period begins a unique series of remains of decorative mural paintings in houses and vaults belonging to Rome, the then capital of the world. I will only remind the reader of the wall-paintings of the Palatine, and in particular of the latest discoveries made by Boni, the house on the other side of the Tiber, the mural decorations of the Villa Liviae ad gallinas albas, the painted columbaria, etc.

Pompeis was destroyed in 79 a.D. Thus the series of Pompeian decorations abruptly ceases near the end of the first century a.D. A few people have spoken of the development of decorative wall-painting in Greece before Pompeii. But no one has taken interest in or studied the history of decorative painting after Pompeii, in the second and following centuries a.D. Nevertheless, if we wish to understand the system according to which Christian churches in the West and East were decorated, and if we wish to make a careful study of the systems of decoration which prevailed in the Middle Ages and the Renaissance, we should be acquainted with the evolution of decorative mural painting during the whole period of the Roman Empire.

Here we are also aided by possessing most valuable, though not particularly well-known material. I have already spoken of the wonderful remains of mosaic, those stone carpets which covered the floors and walls. Let us remember the valuable series which have been left to us by Italy and the East, and more particularly by the western Roman provinces: Africa.

Numidia, Spain, Gaul and Britain.

In addition to the mosties we have a remarkable series of walldecorations the most important of which are to be found in Rome. From
the Renaissance period decorated vanils have been opened in Rome one
after another. A very few have been preserved; some have been copied,
others destroyed without a trace. A great number of decorated houses have
also been found: I will only recall to you the Donus Aurea' of Nero, the
house on the Caelian, and the famous house under SS; Giovanni e Paolo.
Only of late has an interest in these monuments been shown; some of them
are now being published by the British School in Rome.

These series cannot be treated separately from the wonderful series of catacombs in Rome, Sicily, Naples, Alexandria and on other Christian artes. These have been mostly studied by historians of Christian art whose chief interest lies in the subjects of the paintings. But from the paint of view of the history of the art they can only be understood if studied in connexion with the whole series of contemporary mural decorations. Latterly, in the neighbourhood of Rome, Ostia has yielded a most noteworthy series of house decorations, not less interesting indeed, than those found at Pompen. The oldest belong to the second century a.n., the latest to the fourth centur. a.b.

The western Roman provinces have less valuable remains, but even here we have some material of primary importance. I may mention the highly interesting work found in Britain, particularly the mural decorations of the houses at Caerwent, the remains at Salonze and Pola in Dalmatia and Aquincum on the Danube, many tombs in Albania, Macedonia, Serbia and Bulgaria, important remains of stocco-paintings in some Gallic villas and houses in North Africa, a beautiful painted tomb near Tripoli, etc.

There are not as many remains in the East, but even here we find some particularly valuable material. Few people know how many remains of Roman decorative painting there are in Egypt. A series of vaults near Akhmim (Panopolis) belonging to the second-third centuries a.b., decorated edifices and tombs in Alexandria, and the important paintings on one of the walls of a temple in Luxor—these are the fragments I have personally seen in Egypt.

Moreover, we have a whole series of painted vaults from Palmyra, another series in Phoenicia and Palestine, fragments of mural decoration from a large house in Kos and the decorations of the former palace of Attalus

in Pargamon etc.

With all these facts it seems possible to attempt the task of reconstructing the history of decorative wall-painting in the period of the Roman Empire.

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Amid all these examples of our art, a special place is occupied by the decorations found in the Greek towns of South Russia, which were first collected and arranged by me. There are not many, nor are they particularly important considered artistically. They belong on the whole to provincial art. But they are important to us for two reasons. In the first place, they make a complete series of monuments from the fourth century n.c. to the fourth century a.d.—in each century are several specimens of well-preserved vaults and these can always be dated. (The evidence for these dates has been collected by me and is published in my book: I cannot dwell on them in detail here.) In the second place because these monuments depict the evolution of mural decorative painting in the East, where we have so few remains of the Roman period, and where Greek tradition and Eastern art unite. Studying these monuments, we are able not only to recognise the Egyptian and Syrian influences, but also the Iranian, the important significance of which has only lately been realised.

In my short account I cannot dwell on all the important questions arising from the study of all the above-mentioned facts and material. Let me deal only with the question concerning the evolution of the general scheme of mural decorative painting of the Greek and Roman period.

The most ancient system of tuural desocation of small houses and of vanits in Greece (not in the Aegean world, where different principles were comployed) was based on an elementary and simple idea. This idea is prompted by the structural system of the wall as such. The oldest walls

were not built of stone but of unbaked brick; large stone blocks were only used for the base. To join the base and the brick-wall a course of wood, stone or twigs was required; a similar course was required at the top of the wall for the purpose of fixing the roof. This construction divides the wall into four parts: the base, the intermediate portion, the central part of the wall and the cornice.

The unbaked brick and rough stones were brittle and shapeless; they were therefore covered with plaster, which from the most ancient times was painted. Usually the central part of the wall was painted red. The cornice and intermediate portion were the most suitable parts of the wall for painting and embellishing with geometrical and other designs. The base was cither antirely painted over in a colour differing from the colour of the central wall-space or painted to imitate a base built of stone slabs.

This oldest scheme of wall-decoration was greatly influenced by buildings built entirely of squared stones, which fully retained the characteristics of the more ancient wall of unbaked brick; the bass, the intermediate

portion, the central part and the cornice.

The system of wall painting traced above, which may be called the structural system, is splendidly illustrated in some decorated vaults found in South Russia belonging to the fourth and third conturies a.c., in one of Kerteli, one on Vassiarin's hill (on the Taman peninsula) and another near Anapa on the Black Ses (and Gorgippia). The painted vault of Kerteli (see Plate VI. 1; comp. Adp.S.R. p. 70 foll., Pis. XXVI., XXVII. 5 and XXVIII.) belongs to the fourth century are. The decorative system, however, reproduced in this vault illustrates a very primitive decorative scheme. There is no doubt that the decorative wall, though built up of stones, is decorated as if it were constructed of unbaked bricks. The base and the middle part of the wall painted in plan colours (red and yellow), the intermediate part reproducing a wooden course, the wooden cornice with nails on which sepulchral implements are hung, demonstrate that the decorator operated with a very old and primitive decorative scheme.

More advanced is the decerative scheme of the painted vault on Vassiurin's hill (see Ashp.S.R. p. 30 foll. Pls XI-XXV and Figs. 6-10). The base here imitates square stone courses, the intermediate part and the cornice are richly adorned with painted ornaments and reproduce perhaps stucceed and painted stone courses. In examining the decorations of the vault on Vassiurin's hill it should be remembered that its architectural prototype is not a building covered with a roof, but only one surrounded by walls; hence the balasters on the walls and the birds perched on them. The curpet decorating the coiling of this vault is often met with in the decorations of estings; we also find it in some of the Alexandrian vaults of the third century a.c. and later in the decorations of some of the rooms in the Flavian pulses on the Palatine. The fact that reilings and walls were decorated with carpets leads one to suppose that the ceilings were often upholstered with staff or with carpets.

The vanit of Anapa (see A.d.p.S.R. 83 foll., Pls. XXVII I and

XXIX-XXXI) shows the great influence on wall-painting of vaults and

houses built of huge squared stones.

A stone building did not require covering with stace. It was sufficient, as in the large Greek temples, to paint the capitals of the columns or the frieze and cornice. It was also customary to decorate the coffers of the ceiling. All this can be observed in the decorations of the vault of the Tunnilus Bolshaja Blisnitza, belonging to the fourth century a.c. (see A.d.p.S.R. 10 foll. Pis. IV—XL, Figs. 1–5). The head of Kore in the central space of the step-vaulted ceiling (Pl. VII. I and Fig. 1) recalls similar heads of gods and goddesses of the nother world to be found in many of the vaults of Asia Minor and Italy of the same period; similar heads are often



Fig. 1 —View of the Paisten Vallet in the Tonules Boleman Bussiya (Tanan). (Bostovisch, Aslp.S.R. Pl. VI. 2)

used as decorations of coffers of ordinary ceilings. Later they appear in the

centre of semi-cylindrical vaults.

This most ancient system of mural painting dating back then, to ancient Egypt and lasting almost unchanged to the fourth and third centuries n.c., led to important artistic creations. The central undecorated wall-space became the natural background for monumental desoration in the form of figure subjects, that is the so-called Greek 'megalography.' Wonderful paintings once adorned this part of the wall in the 'Stoa Polkile.' Splendid examples of walls thus decorated are to be found in many Etruscan and Samnite tombs and later in the Villa Item recently discovered near Pompeii.

Along with this another idea begins to develop and prevail in the early

Hellenistic time. The walls of the Hellenistic palaces of Asia Minor and Egypt were mostly built of brick and were often covered with thin slabs of different coloured marble instead of stucco, but retaining all the structural parts of a Greek wall built of squared stone. This resulted in a rich harmony of colours, familiar to us not in the originals, but in innumerable copies on the walls of bourgeous houses and vaults throughout the Hellenistic world—in Delos, Priene, Thera, Pompen, Alexandria, Pantikapaion and Olbia. This system of wall-decoration is generally called the first Pompeian or the incrustation style. I cannot adopt this terminology, first because the style is not confined to Pompeji, secondly because incrustation is the insetting of marble of one colour into marble slabs of a different colour, and that is not the case here. Real incrustation will be observed later (p. 152).

The so-called first Pompeian style does not differ in principle from the old Greek structural style; it is only finer and richer in colour and more elaborate in details. We may designate it as the Hellenistic structural style.

It is interesting to note, however, that the so-called first Pompaian style is not the same everywhere: three varieties can be clearly distinguished—the Alexandrian, that of Asia Minor, to which the South Russian decorations belong (see Pt VI 2; comp. A.d.p.S.R. 112-foll. Pt XXVII 2-4 and XXXVII-XLIV., Figs. 23-26) and the Italian. The Asia Minor style is richer in elaborate details and has more colour, whereas the Italian is more strictly architectural.

The Italian and especially Pompeian wall-paintings developed not only polychrome effects, but also architectural elements. In addition to the horizontal divisions of the wall, vertical divisions are indicated everywhere. From top to bottom from the dado to the cornice, the wall is divided by columns, pilesters and half-columns; the frames of doors, windows and niches are righly embellished and painted; walls with two lights as in the

Odeon of Pericles, are reproduced in the mural decorations.

All these elements, which strongly prevail in Italy in the first Pompeian style gradually develop into the so-called second Pompeian style, and later into the third and fourth Pompeian styles, whose further development can be observed in Italy and the western provinces. I would call all these styles architectural. One of the most striking features of the architectural style is the close unitation in wall-decorations of the decorations of the theatre stage. This imitation is as characteristic of the earlier phases of the architectural style (the second Pompeian style) as of the later development (the fourth Pompeian style).

In considering the hotly debated question of the provenance of this architectural style it is most important to state that I know of no examples in the East or in South Russia, though many voults belonging to this period are to be found in the South of Russia. Neither has Egypt produced any conspicuous examples, whereas Rome, Italy and the West are rich in remains of that style. I would therefore feel inclined to agree with the opinion of those ancient authors, who saw the development of this style and consider

Italy its pince of origin.

In the East a different development may be observed. In the first and second centuries a.D. two different styles made their appearance, both of no less importance in the further development of decorative art. At first, during the later Hellenistic period, simple degeneration and simplification of the structural style begins; it is in fact the same process as that suffered by the architectural style in Italy and the western provinces (see A.d.p.S.R. 136 foll., chs. xi-xvi.: I called this system of decoration pseudo-isodome or late structural).

But afterwards, two peculiar styles emerge: the floral or carpet style, and the incrustation style.

The floral style is very old. It originates in the tent of nomadic tribes, which was entirely hung with carpets. But the form in which it appears in



Fig. 2—FRONT PART AND FRONT 1800B ON THE VALUE DISCONDEND IN KERNII IN 1801.
(The two figures to the right and to the left of the door are defined by inscriptions so Hermonial Kalypso, the See See Section 4.4.p.S.R. PL. LVI.)

South Russia is the product of late Hellenism. It may be described as follows: the framework of architectural structure and divisions remains the same; dado, central and upper part of the wall; all these parts of the wall, however, are used as background for decoration. In some decorations of Pompeii, Cyrene and Alexandria, the leading idea is that of a woven carpet covering the wall. In South Russia the wall is covered with branches flowers and garlands partly taken from nature and partly conventionalised. They are strewn in full disorder without system on the walls and ceilings, and are often found in conjunction with figure subjects, which at this period are found in the central space and in the lunattes (see Fig. 2, the earliest example of this style; the vault discovered at Kerteli in 1895, the ceiling

with the head of Demeter is reproduced on Pl VII. 2, comp. A.d.p.S.R. 199 foll, Pls. LVI.-LXII., Figs. 35-47; other examples of the same style in Kertch are the vault of 1873, see A.d.p.S.R. 227 foll., Pls. LXIII.-LXV. Figs. 49-52, and the vault of Sarakos, ibid. 244 foll., Pl. LXV. 4, Fig. 53.

Leannot here trace the full development of this style, but I may say that it is not confined to the South of Russia. It is found in some houses in Pompeii, in the vanits of Rome, Tripoli and Palmyra, and in the palace of the Attalids in Pergamon. Its influence is strongly felt in some decorntions of the western provinces of Rome. I find traces of it in Hellenistic commics, and in many Hellenistic and Roman mosaics, but it is probably older than Hellenism and originates in the East. For the future no student

of decorative art can afford to neglect it.

The incrustation style has a still greater importance. The history of its origin was outlined to us by Virruvius and Pliny. They consider the palace of Mansolus in Caria the first example of it in the Greek world. But it dates even further back. Its birthplace is ancient Mesopotamia and Iran with their buildings of unbaked brick and their wealth of different coloured stone. The principle of the style is as follows: the same fundamental system of dividing the wall into three parts is retained, and the whole or some parts of the wall are covered with slabs of different coloured marbles, not with the intent of reproducing or outlining the structural character of the wall, but of achieving a rich polychromy. Its leading idea is to obtain an effect of mesaic, 'marmoribus pingere.' Marble slabs of one colour are incrusted or inlaid with 'crustae' of another colour, forming geometrical mannent, and separate figures or whole scenes.

The same effect is produced in Elam, Babylonia and Persia, by using different coloured tiles. During the Roman period decorators refrained from reproducing human figures and animals on walls decorated on this system and contented themselves with geometrical ornament. Their treatment of floors, however, as is shown by numerous examples found in Rome, is all the more unrestricted, and by means of incrustation, human beings.

animals, ste, are represented.

A splendid illustration of this form of art is given by a vault opened by Stassov in Pantikapaion (see Pl. VIII., one of the walls, and Pl. IX., the ceiling), and by a vault in the same place, which I have discovered

and described (A.d.p.S.R., p. 261 foll., Pls. LXVI.-LXX.)

Characteristic for Kerteh is the fact that the incrustation style was mostly combined with the floral and with representations of figured scenes in the upper part of the wall. In these cases the lower part of the wall was covered with decoration imitating murble incrustation, the upper with figure subjects and strewn flowers and garlands (see Pl. VIII.). The same combination may be observed on the ceilings (see Pl. IX.); the central part is covered with flowers, birds and garlands; the parts of the ceiling above the fineral beds, with coffers inlaid with coloured murble. The description of raults decorated in the incrustation style and an analysis of the style as such can be found in Adp.S.R. 260 foll, the taxivexxviii. pure

incrnstation style) and p. 283 foll., chs. xxix.-xxxii. (mixed incrustation and floral style).

It is interesting to note that this style can be observed in the later

decorations of Pompeii.

The incrustation style had a promising future. Every Byzantine church, many relies of the early medieval ages provide brilliant examples of the

further development-extending even to the present day.

The floral and increatation style in South Russia reached their climax in the second and the beginning of the third century A.D. In the third century they are already declining. Rich colour and form disappear, the floral and increatation style adopt geometrical form, and everything is based on line and contour.

Christianity established in the Chersonese during the third century A.D. gives rise to the rebirth of decorative wall-painting strongly influenced by Syria and Palestine. The determination of the origin of this new development is a difficult and complicated question. A discussion of it would be too lengthy for me to enter on here (see A.d.p.S.R., p. 439 foll.,

che glvii.-lviii., Pls. CIII.-OX.).

I have now given a brief review of the development of decorative wall-painting in the East and partly in the West, in so far as this development is shown by the monuments found in South Russia. The universal evolution is more complicated and more detailed, but the essential steps of evolution have all left their trace in South Russia, and from their observation some fresh idea can be obtained of the general development of mural decorative art in Greece and the Roman Empire

NOTES AND REFERENCES.

To Part L.

The article printed above reproduces in general outlines the results at which I arrived in my book Ancient Decorative Painting in the South of Russia. S. Petersburg, 1914, vol. i. (text), vol. ii. (plates), (quoted as A.d.p.S.R.). It is impossible to give in a few pages the whole content of a big work of about 600 pages and 112 plates dealing with difficult and unexplored material. But it would be perhaps useful to trace the main outlines of the general evolution of ancient decorative painting as resulting from the minute research carried out in my above-mentioned book.

In these few additional notes appended to my article I cannot give all the references and quotations contained in my book. I should like only to illustrate certain points in my article by some references partly borrowed from my above-mentioned book, partly new. My nim is to give to my reader the possibility of controlling my own statements and to guide him through the scattered and ansafficiently studied materials. I do not mention the

older publications if I am able to refer to a recent work or article containing

a more or less good bibliography of the subject

The standard work on Pompoun Decarative Painting is A. Man. Geschichte der decarativen Wandmalerer in Pompois. Berlin, 1882, with atlas of coloured and uncoloured plates. The new works about the subject deal with some points of detail and are indicated in the introduction to my A.d.p.S.R. Valuable remarks about the origin of the Pompoian system may be found in R. Pagenstecher. 'Alexandrinische Studien' ii. Sitzh. der Heid Ak., Ph.-Hist Kl. 1917, I foll.') No one has tried to illustrate post-Pompoian decorative painting in the Roman world, as no one has attempted to give the outlines of evolution before Pompoii. I have not to deal here with the question of the composition and the originals of individual Pompoian pictures; see the last works on this subject: Lippold, Jahrb. d. d. Arch. Inst. xxix. [1914], 174 foll.; F. Matz. Ath. Mitth. xxxix. (1914), 65 foll.

Elvuria.—The latest and best work on the painted tombs of Etruria is F. Weege, Etruskische Grüber mit Gemidden in Corneto, Jahrb. d. d. Arch Inst. 1916 (xxxi.), 105 foll. but it deals only with Corneto; componenti, Atone e Roma, 1914, 129 foll and Galli, Monum. antichi xxiv. (1917), 1 foll. With the Etruscan tombs we have to compare the beautiful surcophagus from Gela in Sicily of the lifth century u.c., stuccoed and painted inside like a sepalchral room, see Orsi, Mon. ant. xvii. (1907), 384, Figs. 284–287 and Tav. XI,VI. Of later date (fourth to third century u.c.) are the remains of painted stuccoes from a dwelling house in Gala (Orsi, ibid. 379 Fig. 281). The remains in Greece itself are scarce; note a tomb from Eretris in Enboca, Ath. Mitth. 1901–339, Fig. 2, and another tomb from Aegina, Ross, Arch. Aufs. Pl. III., cf. Ath. Mitth. 1885, 158

Macedonia and Thracia.—The beautiful painted vaults in Macedonia and Thracia belonging to the fourth-third centuries u.c. give the best analogies to the painted tombs of early date in South Russia. Like them they are covered by a big turnulus and belong apparently to Macedonian and Thracian kings and princes. A few of them were excavated, to wit, some turnuli near Pella, Pydna and Palatitza, see Delaconforche, Berceau de paissance nacedonienne. 76 (Arch de mission sc. 1858); Henzey et Daumet, Mission en Macedonies, 226 foll.; 247 foll, and 251. A splendid temb was discovered by K. F. Kinch in Macedonian Thrace, see Kinch Berctwing om en Archäologiska Reise i Makedonien, Kobenhavn, 1893; A.d.p.S.R. 313, Fig. 61, compare the newly discovered vault near Salumka with funeral beds and a splendid door, Macridy Bey, Jahrb, d. d. Arch. Inst. 1910, 210.

South Italy.—F. Weege, Oskische Grahmmlerei, Johnb. d. d. Arrik. Inst. 1909 (xxiv.), 99 foll.; R. Pagenstecher, Grahgemaelde and Gnathia. Rim. Mitth. 1912, 101 toll. (gives valuable evidence on the Apalian graves); Gabriei, Mon. d. Linc. xx. (1910). I foll. (vault of Teanq). Compare H. Nachod. Röm. Mitth. 1914 (xxix.), 260 foll. and some articles on various badly excavated and thoroughly forgotten tombs in the periodicals Apulia and Neupolis (e.g. Apulia ii. 159; iii. 97; Neupolis i. 104, etc.).

Palestine.—To the early Hellenistic period belongs the splendid painted tomb of Marissa, see Palestine Exploration Fund, Painted Tombs in the Necropolis of Marissa by J. P. Peters and M. Thiersch, London 1905; cf. Macalister, Addenda ibid, and Vincent, Rev. biblique, 1906; also Thiersch, Ang. 1908, 405 fall.

The splendid representatives of the oriental branch of the so-called first Pompeian style from *Delos* are now decently published and carefully studied by M. Bulard. Peintures et mosaiques de Delos, *Mon. et Mein. Piot* xiv. (1908); less important are the remains in Priene, Magnesia on Macander and Thera, see Wiegand and Schrader, *Priene*, p. 308 foll.; Hiller von Gaertringen, *Thera* iii. 145; 148 and Pl. 4; 152 and 164 Pls 1–2 and Fig. 154, comp. p. 160 (some of the remains on Thera belong to Roman times); *Magnesia am Macander*, p. 138, Fig. 149, 150; on Olbia and Pantikapaion, see further above

Extremely rich and quite peculiar is the series of painted tombs of the early Hellenistic period discovered in Alexandria. It is a pity that the series was never published as a whole; some tombs, like the beautiful tombs near the ancient Phares, remain practically unpublished, see M. Thiersch, Zavi antike Grabantagen bei Alexandria, Berlin, 1904 (the tomb of Sidi-Gaber and that in the garden Antoniadis); the painted vauls of Souk-el-Wardian, see Brecens, Masée égyption in (1904), 63 foll; a description of the paintings in the tombs of Pharos, Botti, Bull, de la Sov. Arch. d'Alexandrie, 1902 (No. 4), 13 foll, compare Ad.p.S.R., p. 63, fig. 12, and Pl. XXV, 2. The new and less important monuments are published in the periodical Rapport sur le marche du Service du Musée of the municipality of Alexandria.

We have to compare the Alexandrian examples with those from South Italy, e.g. Naples, Mon. ant. pubbl. dell' Academia dei Lineei, viii, 221 foll., compare Gabrici. Tomba ellenistica di S. Maria Nuova in Napoli, Röm Mitth, 1912, 148 foll.

Valuable information about the style, ornaments, colours and the decorative scheme of Helienistic wall-painting is supplied by parated clay and glass cases of the same period. The latest and most important works on the clay vases of the Hellenistic period are: E. Pottier, 'Vases hellenistiques a fond blane, Mon. Piot xx. (1913); G. Leroux, Laggenos, Recherches. our la véramique et l'art ornamental hellenistiques, Paris, 1913; Sieglin-Pagenstreher, Beschreibung der griech ogypt Sammlung Ernst von Siegtion Leipzig, 1913, Expedition E. v. Sieglin, H. 3; Picard, 'La fin de la commigne peinte en Grande-Grèce, Bull. de core hell. 1911; E. Breccia, Catal, gen, des ant, ég, du Musée d'Alexandrie. La necropoli de Soiatle, Le Caire, 1912; compare Musée ég. iii 13 fell. (La ghirlandomania alessundrina); J. Six. Polychrome Malereien von kellenistischen Hydrien aus der Nekropole von Hatra in Herrmann, Denkin, der Malerei des Alt. 15 K. V. Trever, Olbian Polychrome amphora (in Russian), Materialy po archeologii Rossii, N. 36 (Petrograd, 1918). The painted glass-vessels are illustrated by myself: "Painted Glass Yases of the Late Hellenistic Times and the History of Decorative Painting (in Russian), Bull, de la Comm. Imp. Arch. 1914, compare Morin-Jean, Rev. arch. 1917, 310 foll. (abstract of my

article, not without defects and misunderstandings).

Of great importance are the puinted grave-stellar of the Greak and early Hellenistic period found chiefly in Egypt, Phoenicia (Sidon) and Thessaly. We have no general publication of the painted stelae of Alexandria. Most of them are published by Breezia in his accounts of the excavations in the necropolis of Alexandria-Sciatli, Ibrahimich, Gabbari, etc., see the above mentioned book La necropoli di Scialli, compare Rupport sur la marche du service, and Bullstin arch, d'Alexandrie, also the article of A. Reimach, 'Les Galates dans l'art Alexandrin,' Mon. Piot, xviii, 37 foll. and my article in Monuments du Musée Alexandre III. à Moscou (Moscou, 1912), 1-ii, 69 foll. The curious Sidonian stellar now chiefly in the Museum of Constantinopie were collected by Lammens, Rev. Arch, 1898 (33), 100; Perdrizet, ibid 1899, 42 foll, and 1904, 234 foll. The stellar of Pagasac-Demetrias in Thessaly were published by A. S. Arvanitopullos. Geografica Μυημεία, 1909, compare A. Reinach, Les nouvelles stèles de Demetrias, Rev. ép, ii 137 foll.; G. Rodenwaldt, Ath. Mitth. 1910, 118 foll. and A. Walton, Painted marbles from Thussaly, in Art and Archaeology, iv (1916), 47 fall.

Late Hellemistic (*) Palestinian tombs were published by Bliss and Macalister, Economics in Palestins during the Year 1898, p. 198 foll and Pl. 92, Figs. 3 and 5 (Tell el Judeideh) and by Bliss and Dickie, Excavations at Jerusalem, 1894–1897, London, 1898, 244 foll, (two coloured plates). The dates of both are uncertain.

The late Hellenistic wall-paintings of Rome are to be found in the above mentioned book of A. Man. The new discoveries in the foundations of the Flavian house on the Palatine are not published yet. The wall-paintings of Rome belonging to the time after the destruction of Pompeii are partly mentioned by Man. But the series is anormously rich and few monuments are duly published. I shall mention first of all the new publication of the remains of wall-paintings in the domus sures of Nero by F. Weege, Das goldene Haus des Nero, Juhrb. d. d. Arch. Inst. 1913 (xxviii.), 127 foll and some coloured plates in the Antike Denkmüler, as examples of a good publication of one of the most beautiful works of ancient decorative painting completely destroyed after its first discovery.

I cannot anumerate all the monuments containing wall-puntings, partly published partly anpublished which I brought together for the second volume of my A.d.p.S.R., the list would be too long. I shall mention only that the interest in these valuable remains, which seemed to be dead in the nineteenth century, awakened again in the twentieth century. Some scholars are busy in republishing certain valuable frescoes, badly and incorrectly published in the seventeenth and eighteenth centuries, partly from the extant originals, partly from ancient unpublished coloured drawings. I may remind the reader of the splendal publication of the pictures of Rome and Ostia preserved in the Vatican by Nogara, of many publications of

ancient drawings made after ancient tombs and buildings discovered in Rome in the seventeenth and eighteenth centuries; see R. Engelmann, Antike Bilder aus Römischen Handschriften, Berlin, 1909, and T. Ashby in the Papers of the British School at Rome, vii. (1914), 1 fall, and viii. (1916), 101 foll., compare A. Michaelis, Jahrb. d. d. Arch. Just. xxv. (1910), 101 foll.; A.d.p.S.R. p. 371 foll, and G. Bodonwaldt, Gemülde aus dem Grabe der Nusonier, Rom. Mitth. 32, 1 foll., and of many valuable papers by T. Ashby and Mrs. Strong giving good reproductions of forgotten or insufficiently known representatives of Roman wall-paintings; see Ashby, 'The Columbarium of Pomponius Hylas, Papers of the British School at Rome, s. (1910), 463 foll., Mrs. A. Strong, 'Ancient Wall-Paintings in Rome, I. The Palatine, ibid. vii. (1914), 114 foll.; 'H. The House in the via de' Cerchi,' ikid: viii. (1916), 91 foll. Compare, on the Caelian bouse, Catti, Bull. Com. 1902, 147 fell. But I must say that the work of republishing anduly forgotten remains is only at its beginning. One must not forget how many valuable remains were discovered during the rebuilding and building of modern Rome in the cighteen-seventies. Meanwhile new monuments of the first importance come to light and await an adequate publication. I mentioned the paintings of the Palatine; now some beautiful Columbaria have been discovered under S. Schastiano on the Via Appia, see Profumo, St. Romani, ii. (1914), 417 foll.; Marracchi, Bull. Com. 1916, 249 foll.; comp. Cromaco delle belle arti iv (1917), 40 foll and Sparo in Neupolis i. (1915), 334 foll,; and a building near Porta Maggiore is described as containing splendid decorations, see Cron d. belle arts, iv. (1917), 41 and van Buren, The Year's Work in Class. Phil. xii. (1917), 4 foll. See also E. Katterfeld, Rom. Mitth. 1913, 28 foll. The wall-paintings in Ostia are described and studied by F. Fornari in Studi Romani, i (1913), 305 foll.

To enumerate all the remains of ancient decorative wall-painting in the western provinces of the Roman Empire would be a hard and long task. I shall give but few references, more to illustrate than to exhaust the subject.

In Gaul and Belgium we have many remains of Roman decorative paintings found partly in Gallo-Roman towns, partly in villas. The best collection of these fragments may be seen in the Museum of St Germain. Interest in these remains is now awakened among French scholars; new finds are sometimes well reproduced, (see e.g. E. Chanel. Pointures murales de la villa gallo-romaine de Periguot hameau d'Izernore (Ain), Bull. arch. du com. d. tr. hist. 1909, 1, 3 foil. Pia L-IV.); ald drawings are republished (see Rev. arch. 1913 (xxi.), 195—drawings of Langlois from some frescores of Lillebears, compare Gaillard, Mém. de la soc. d. ant. de Normandie, 1853, 50 foil.). A full list of the monoments would be of great importance.

The same may be said of the numerous remains in Britain scattered in many provincial museums and published in provincial publications. The best were discovered at Caerwent and partly published in the Account of the Executions (in Archaeologia). I give no references, because only a full list would be of use. My materials are still too fragmentary.

Roman Africa, so rich in messics, has supplied us with some important remains of decorative mural painting also. To illustrate this I reproduce a short list of publications sent to me in 1912 at my request by A. Merlin, M. Merlin did not pretend to make a full statement, but the list as it is is very instructive. I must point out, that Merlin deals only with Africa proconsularis, excluding Numidia and Mauretania. To his enumeration I can append only one monument—the beautiful painted tomb of Guigarich near Leptis Magna, see C.R. de l'Acad. 1903, 358 and 360. l'Arte, 1903, 97; Nuovo Bull, di Archeologia Crist. 1903, 286.

The list runs as follows:

Gigthis: Ganckler, Compte rendu de la Marche du Service des Antiquités en 1902, p 25; Merlin, Bull. archéol. du Comité, janvier. 1912. Thinu: Massigli, Cut. du Musée de Sfax, p 14; Fortica et Malahar, Bull. archéol. du Comité, 1910, p. 86 et suiv., notamment p 02; Merlin, Bull. archéol. du Comité, mai, 1912. El-Djem.. Merlin, Bull. archéol. du Comité, 1910, p. ceix., 1911, p. clxiii. Sousse: Lacomble et Hannezo, Bull. archéol. du Comité, 1889, p. 110 et suiv., en particulier, p. 116 et Ph II.; S. Reinach, Bull. archéol. du Comité, 1892, p. 416 et suiv., Pls. XXIX—XXX—XXXI; Gauckler, Gouvet et Hannezo, Musées de Sousse, p. 45. Oudna: Monuments Píot, iii. 1897, pp. 217–218; 'lourdes rosaces géométriques, bariolées de couleurs criardes formant un réseau ininterrompu sur fond blanc.' Voir aussi Catal. Musée Alaoui, Suppl. p. 39. Nos. 83 et suiv.

I add a few scattered notes on other western provinces just to show how

large and rich the material is.

Trier: F. Hettner, Illustr. Führer durch das Provinzialmuseum, 95 (painted tomb); Dalmatia (Salonae): Bull. Dalm. 1900, 201, Pt. IV.; 1901. 110 foll. and Pl. XI.; compare 1892, 159 (painted tombs of early Christian time); Albansa: Archaeologia, 1849, p. 60 foll. (painted tomb); Maecdonia: Mel. de l'écols fr. de Rome, 1905, 92 foll. and Pl. H.; Aquincum (on the Danube). Hungary: many remains of wall-paintings of houses are published in the Hungarian periodical, Budapest Regiségei, vv. i.ix.; Serbia and Bulgaria: I published recently two painted tombs from Viminacium and Varna in Zapiski Russkago arch Obstestna (Depart of Classical and Byz. Arch.) viii.; more important is the tomb of Brestovik (near Belgrad), published by Vasic and Valtroviè in Starinar, 1906, 128 foll.

As regards Egypt, but few monuments have been published. In Alexandria some frescors from Gabbari have been studied by Thiersch. Zwei Uraber der rom Kaiserzeit in Gabbari, Bull de la Soc arch. d'Alex 1990, 3, cp. Botti, ibid. No. 2, 52 foil.; compare Edgar, Musee eg. ii 49 foll., and Robensohn, Jahrh. d. d. Arch. Inst. 1905, 17; but the more important decorated walls in some rooms of the hig tomb of Kom-es-Shukafa still remain unpublished. Nobody has tried to reproduce and to save the most important series of tombs near Akhmin (Panopolis). One of them was described by Rubensohn, Arch. Anz. 1906, 130; two were photographed and one published by myself (A.Ap.S.R. p. 494, Fig. 92, 93). The wall-decorations in Luxor remain unpublished. To much later tions belong the

decorative paintings of Bahwit and Bahawat: see Cledat, 'Le monastère et la necropole de Baonit,' Mém. publiés par les membres de l'Inst. fr. d'arch. or. xii. (1904); and von Bock and Smirnov, Matériaux pour servir l'archéologie de l'Egypte chritieuxe (in Russian), St. Petersburg, 1901.

Palmyra: Pharmakovsky, Bulletin de l'Institut vusse à Constantinople, viii. 3; Strzygowski, Orient oder Rom, 12 fall.; Cumont, Rev. de

Phist, d. rel. 62 (1910), 142 foll.

Phoenicia and Palestine: see Renan, Mission on Phénicie, Paris, 1864, 209, 395, 408, 411, 661; F. Dietrich, Zwei sidonische Inschriften etc., Marburg, 1855, 8; Vogué, Fragment d'un Journal de voyage en Orient, 27 foll.; Schick, Pal. Expl. F. Quart. Stat. 1887, 51 (newly discovered rockhewn tombs at Kolonich).

Pergamon Schazmann, Ath. Mitth., 1908 (33), 437. The house of Kos is saill unpublished.

To Part II.

The leading ideas in my account of the carlier history of wall-painting are (1) the close connexion of the mural painting with the structure of the wall; (2) the independence of the Greek evolution from every foreign influence, and the direct evolution of the so-called first Pompeian style from the purely Greek structural decorative scheme. The problem of the origin of the first Pompeian style is hotly debated. My point of view remains very near to the point of view of Doerpfeld, though I arrived at it quite independently; see Doerpfeld, 'Zu den Bauwerken Athens,' Ath. Mitth. 1911 (36), p. 52 foll. (deals with the Pinakotheke on the Akropolis of Athens), and Gesimse unter Wandmalereien ' (ibid, p. 86 foll.; deals with the halls of the Athena-sanctuary in Pergamon). I cannot see what influence Alexandria had on the first Pompeian style, nor can I acknowledge that the palace of Mansolus was decorated in the scheme of the first Pompeian style. The palace and its oriental prototypes were parents of the true incrustation style. I shall have to deal with it later. On the question of the origin of the first Pompeian style, see e.g. Th. Schreiber, Dis Brunnenveliefs, pp. 13 and 48; Jahrb. d.d. Arch. Inst. 1896, 82; H. Thiersch, Zwei autike Grabenlagen, 12; Pfuhl, Jahrh, d. d. Arch, Inst. 1905, 54; Wace, Ann. of the Br. School at Athens, ix. 232 foll.; R. Pagenstocher, Sitzb. der Heid. Akad. Phil.-Hist Klasse, 1917, 12.

More complex is the question of the origin of the second style—the architectural style, as I call it, to differentiate it from the first, or structural style. It is commonly accepted, on the ground of certain literary evidence and of monuments like the façades of the tombs at Petra in Arabia, that the architectural style originated in Asia Minor. The most important text, however—Vitr vii, 5, 5, dealing with Apaturius from Alabanda—does not mention the house-decorations, but pictures to adorn a theatre stage. At the same time it must be taken into consideration that Apaturius lived not earlier than in the first century E.C. and was perhaps a contemporary of

Vitrurius. It is possible that he introduced into Asia Minor a foreign fushion coming from Italy. It is necessary to remember that he encountered opposition in Tralles and was obliged to substitute for his fantastic picture a more real one. Quite indecisive are the other texts, quoted by the defenders of the Asia Minor theory (e.g. Studniczka, Tropacum Traiani, 67, etc.), like the information on Agatharches and his work in the house of Alcibiades (Plut Per, 13; de amic, mult 5; Vitrus, vii praef, 11) On the other side we have no monuments of Hellenistic times in Greece and Asia Minor showing a decoration of this style. There is no doubt that the tombe of Petra belong to about the time of Hadrian, and to the same time or a little earlier belong other monuments of the same kind. Convincing on the other hand, is the negative evidence. None of the numerous wall-paintings of houses in Delos, Priene, Them, Magnasia, Pantikapaion, Olhia which are partly, as in Delos comparatively late (second-first century MC), no tomb in the East, in Egypt and m South Russia is decorated in the architectural style. On the other side, Italy and the western provinces are full of examples of this style belonging partly to the first century a.c. In view of this negative and positive evidence, it would be unmethodical to give no credence to certain authoritative statements of Roman authors, who affirm that the architectural style was born in Rome and was one of the forms of the Italian renaissance of the later Hellenistic time. This development was prepared by the peculiar form of the Italian so-called first Pompeian style. I have already mentioned the predominance in this style in Italy of vertical divisions and the tendency to fill upper parts of the wall with windows, niches, etc., or to give the impression of an opening of the wall with the view outside. Like the vertical divisions of the wall, it is an imitation of real architecture in the type of the Odeon of Pericles: see Plat. Per. 13; Vitr. v. 9, 1; Bennulorf, Das Monnment von Adamklissi 144. The tendency to vertical divisions is not peculiar to Italy and to Rome. The real Greek architecture cultivated it during the whole Hellenistic age. New is the rich development both in real architecture and painted imitations. And this is just the peculiarity of Italy. One must not forget that the second and first century ito, was a time of economic decay of the East and at the same time of strong development of wealth and wealthier classes in Italy. Italy was filled with Greek artists. well gaid and employed to adorn the town palaces and villas of Roman wealthy citizens. No wonder if the new leading tendencies in art were developed not in Greece, Asia Minor, and Egypt, but in Rome, Italy and Gaul. At the time when the East under the Roman emperors grew wealthier again and overwhelmed decaying Italy, the architectural style was no more the leading fashion; both the third and the fourth Pompeian styles having developed directly from the second, probably in Italy, perhaps the third style in Alexandria also (see Ippel, Der dritte pompeianische Styl, Berlin, 1910) were decaying in the second century A.D. and did not suit the tastes of the new world of the East, closely connected as they were with the old traditions of the ancient Eastern monarchies. So the architectural style remained confined to Italy and to the western provinces of the Roman Empire. The literary notices I alluded to are Plin. N.H. xxxx 116, 117 and Vitr. vii. 5. I have dealt with them from the point of view of the history of architectural landscape painting in my 'Die hellemistisch-romische Architecturiandschaft' (Röm. Mitth. 1911, 139 foll.); compare G. Rodenwaldt, 'Megalographia,' Röm. Mitth. 1914, 194 foll. I have nothing to change in my views, as the question of the origin of landscape and the question of the origin of the architectural style have to be treated separately and ought not to be mixed up.

The two new styles which came to supplant the structural style in the East and to fight the architectural style in the West—the flower and the

ingrustation style-are both of Oriental origin.

The naturalistic flower style seems to have been born in Egypt. I cannot deal with the matter at length, but I must remind the reader of Egyptian monuments of the New Kingdom, like the pointed tombs of Shoikh Alsi-el-Gourns near Thebes, the tembs near Elephantine, and the discoveries made in the residence of Akhenaten both of mural decorations on stucco and of floor-decorations.

The flower-style has two sub-divisions—the carpet-style and the true flower-style. I have dealt at length with both in my above-mentioned article

on the painted glass vessels from Olbin and Kertch.

The leading idea of the carpet style is to reproduce on the wall or ceiling a rich woven carpet or stuff covered with flowers. A good idea of these stuffs and carpets can be derived from thousands of linea and woollen ofothes found in the graves of Antinon and other towns of Egypt. They are chiefly adorned with naturalistic and stylised flowers.

It is worthy of mention that examples of the carpet-style are not to be found in South Russin, but are numerous in countries closely connected with Egypt. The most of them come from Kyrene (see Pacho, Foyage on Cyréminique) and North Africa (chiefly mosaics). Both countries stood under the direct influence of Egypt. I note also that the carpet-style found its way to the West, we can see rich Alexandrian carpets painted on the newly discovered ceiling of the Palatine of the time of the second style, and in many houses of Pompeir of the time of the fourth style the walls are painted not in the architectural fourth style but in the new carpot-style: the painter dropped the columns and prospects and covered the walls from the dade to the cornice with a rich carpet of yellow or red colour. I could adduce about ton examples, all unpublished. For us It is the more interesting as our walldecoration, consisting of coloured paper adorned with naturalistic or stylised thowers derives directly from this Egyptian carpet system. A careful examination of the remains of wall-painting in the western provinces shows that they were not impressible to the new fashion.

The naturalistic flower-style differs from the carpet-style in that naturalistic or stylism flowers are not disposed symmetrically on the surface, forming mostly geometrical ornaments characteristic of the textile technique, but are strewn in disorder on the surface, buxed up with plants, unimals, birds, garlands, etc. This style is widely spread throughout the

whole ancient world, beginning with the first-second centuries A.D. It derives directly from the naturalistic tendencies in Hellenistic and Roman art: mosaics of Delos and Pergamon, silver vessels with engraved amaments. reproducing a mosaic (see Mathies Ath. Mitth, 1914, 114 foll.); painted clay-vessels of different kinds of the Hellenistic period, etc. show the same system. There is no doubt that the fashion derived from a Piolemaic revival of old Egyptian decorative art; and it is very likely that here, too, real architecture gave the first impulse (see Stadniczka, Das Symposion Ptolemaics II., Abh. der Säche Ges. Phil-hist. Kl. xxx. No. 2; F. Caspari, Das Nilsehiff Ptolemaios IV, Jahrb. d. d. arch. Inst. 31 (1916), 1 foll; A Frickenhaus, Griechische Bankeithäuser, Jahrh, d. d. arch, Inst. 32 (1917), 114 fell.). But the movement grew slowly and invaded the mural decoration not earlier than in the first century no. The growth of the mahion can be studied in the painted tombs of Kertch. The earliest example, the vault of Zaizeva, belongs to the time of Augustus. In the second half of the first century A.D., and in the whole second century it is the dominating style: But Kertch is not alone. The same system dominates the textiles of Egypt (the earliest belong to the second century A.D.); examples of wall-paintings of this style are to be found as early as in Pompeii (decorations of some little house-shrines); many sepulchral vaults in Rome are painted with strewn flowers, we can follow the spreading of the fashion on floor-mosaics in Africa and on tembs from Leptis Magini and Palmyrn, as well as on tombs of Phoenicia, Salome in Dalmatia, Serbia, and Bulgaria. As we have seen, the fashion is not confined to tombs and the spreading of it cannot be explained by religious motives. Mosnies and textiles have nothing to do with tombs, and the house of Attalus in Pergamon, painted in Roman times, as well as many houses in Rome and many rooms in the entacombs, demonstrate that dwelling-houses as well were decorated in the same fashion.

The flower-style is combined in Kertch with the real cacrustation style This style, as already indicated in the text of my article, has nothing to do with the first Pompeian style. It is a kind of mosaic consisting of big slabs of coloured marble forming geometrical designs. The whole development is traced by Vitravius and Phny. The style originated in Asia Minor and was certainly imitated from Persian buildings; the house of Mansolus was the first example known to Pluny and Vitruvius, see Plin. N.H. 36, 47; Vitr. ii. 8, 10; the further evolution is depicted by Phay, N.H. 35, 2; 36, 134 aml 114 The innovation consisted in adorning the walls, estings and floors with different designs formed by coloured marbles, coloured glass, metals atc. It has nothing to do with the much earlier massic /see R. Engelmann Berl. Phil. Work, 1907, 1653, against R. Delbrück: Hellenistische Rauten in Latium, 50 foll.: Gauckler, who first expressed in Daremberg et Saglio, Diet, and, art. Musicum opus, the wrong opinion, has since agreed with Engelmann), and was characterised by Pliny with the expression lapide pingere. This heavy and pompous myle is a right expression of the strong influence of the ancient Orient on the Roman Empire. We tunst

study it not from originals in the houses and palaces, but from copies in tombs and more modest houses, where these decorations were imitated in colours on stuccood walls. Examples of this painted reproduction are to be found everywhere. The earliest are to be found in Pompeii; the latest deconitions of the fourth style show constantly a base adorned with marble incrustation. Afterwards in the first and following centuries we have examples everywhere: in dwelling houses, caracombs and churches in Rome, also in tombs, in the above-mentioned tombs of Egypt, in Palmyra, etc., etc. In the West the new style had to struggle like the flower-style and in combination with it against the latest architectural style. We know that the vanquisher was not the architectural style, although it had a rovival in the early Renaissance decoration of private houses in Italy and elsewhere. For the late Roman Empire and the Dark Ages the flower and incrustation decorative style was the style, a style which finally overpowered all its rivals and gave rise to many new and very important creations.

M. ROSTOVIZEFF.

CLEOSTRATUS.

In the indexes to most histories of astronomy you will seak his name in vain, and, where you do find it, you are referred to a few jejune paragraphs or more often to a single sentence. Bolt in his Sphaera (1903) hanours him with three pages (191-194), based on a passage in Pliny and a scholium on Europides, but he misinterprets both passages and holds one of them to be based on a misunderstanding of some older writer. Nearly all the passages bearing on him are to be found with notes of varying value in Diels, Fragmente der Vorsokratiker³, ii. (1912), pp. 197, 198, where they occupy rather more than a page. Some valuable comments and one reference which is not in Diels will be found in Breithaupt's treatise Ds. Parmentsco Grammatico (1915). And yet, for all this neglect, there are attributed to Classification two capital contributions to Greek astronomy, viz. the introduction of the signs of the zodiac and the authorship of the eight years' cycle of intervalations.

The following is, so far as I know, a complete list of passages bearing on Choostratus

(1) From a life of Aratus, excerpted in E. Maass's Commentariorum in Aratum reliquime (1898), p. 324:—

Βόηθος δὶ ὁ Σιδώνιος ἐν τῷ α περὶ αὐτοῦ [sc 'Αμάτου] φησεν οὐχ Ἡσιόδου ἀλλ' 'Ομήρου ξηλεστὴν γεγονέναι: τὸ γὰρ πλασμα τῆς ποιήσεως μείζον ἡ κατὰ Ἡσίοδον πολλοί γὰρ και ἀλλοι Φαινόμενα ἐγραψαν καὶ Κλεοστρατος και Σμίνθης καὶ 'Αλέξανδρος ὁ Δίτωλος καὶ 'Αλέξανδρος ὁ Ἐφέσιος και 'Αλέξανδρος ὁ Αυκαίτης καὶ 'Ανακρέων καὶ 'Αρτυμίδωρος καὶ Ιππαρχος καὶ ἄλλοι πολλοί, ἀλλ' ὅμως πάντων λαμπράτερου ὁ 'Αρατος ἐγραψεν.

In this passage Κλεόστρατος is a correction made by Hergk and published by Meincke, Zeitschrift für die Alterthumswissenschaft (1848). μ. 23, for the MS. reading Κλεοπωτρης.

The writer does not make it clear whether he gives this list on his own authority or cites it from Bouhus, but the inclusion of Alexander of Ephesias shows that the list cannot have been compiled fill after the time of Boothus.

(2) From a catalogue of writers on Aratus, edited by Masse in A. Kiesling's Philologische Untersuchungen, xii. (1892), p. 121, reprinted by Breithaupt, Icc. cit., pp. 40, 50:—

αι περί του ποιητού συνταξάμενος.

"Ατταλος 'Ρόδιος. 'Αρίσταρχος Σάμιος. 'Απολλώνιος γεωμέτρης. 'Αντύγονος γραμματικός. 'Αγησιάναξ. 'Αρίστυλλοι δύο γεωμέτραι. Βόηθος. Γεμίνος. Διόδοτος. Δίδυμος Κνίδιος. 'Ερατοσθένης. Ερμυππος. Εὐαίνετος. Ζήνων. 'Πλιόδωρος στωικός: Θαλής. 'Ίππαρχος Βιθυνός. Κράτης. Πύρρος Μάγιος: Παρμενίσκος γραμματικός. Σμίνθης. Τιμόθεος.

Εδαίνετος έτερος. "Εσμιππος περιπατητικός. Καλλίμαγος Κυρηναίος.

Κλεόστρατος Τενέδιος. Νουμήνιος γραμματικός. Παρμενίδης.

"Απαλλώνιος γραμματικός. "Αρίστυλλος μέγας. "Αρίστυλλος μικρός. "Αρίσταρχος γραμματικός. "Αριστοφάνης. "Αλέξανδρος Αlτωλός. "Αλέξανδρος Έφεσιος. Δίδυμος πουηρός.

A similar but shorter list which does not include the more of Classicatus is found at the close of a MS, of Claminus's Elasywyň els τὰ Φαινόμενα, printed with apparatus by Maass in Hermes, xvi. (1881), p. 388. But in this case the word πόλου takes the place of ποιητοῦ in the title, and there can be no doubt that Von Wilamowitz-Möllendorif (A. Kiessling's Philologische Untersuchungen, iv. [1881], p. 330) is right in reading πόλου in the longer list also. Maass has shown (A. Kiessling's Philologische Untersuchungen, xii, pp. 123–139) that in this instance πάλος is used in the sense of 'sky'. Here again Κλεύστρατος is the result of a correction. The MS reading is Καλλίστρατος, corrected by Meineke, Philol. exercit. In Athen. i. (1843), p. 23, cited by Maass.

- (3) The ophrastus, περί σημείων, l. 4 ed. Winnior (Paris, 1866), p. 389. διό και άγαθοί γεγένηνται κατά τύπανς τινάς άστρονόμοι ένωι οίον Ματρικετας έν Μηθύμνη άπό τοῦ Λεπετύμιου, και Κλεδοτρατος εν Τενέδφ άπὸ τῆς Τόης, και Φαεινός 'Αθήνηστιν άπὸ τοῦ Λυκαβηττοῦ τὰ περί τὰς τροπὰς συνείδε, παρ΄ οῦ Μετων ἀκούσας τὸν τοῦ ένος δέαντα είκοσεν ένωντὰν συνέταξεν. ἤν δὲ ὁ μιν Φαεινός μέτοικος 'Αθήνηστιν ὁ δὲ Μέτων 'Αθηναῖος. και Δλλοί δὲ τὸν τρόπον τοῦτον ἡστρολόγησαν.
 - (4) Seylax 78, ad. Pabricins (1878), p. 27:-

Καὶ τήσος κατά ταύτα κεύται Τένεδος και λιμήν, όθεν Κλεοστματος δ άστρόλογος έστί.

- (5) Athenneus, vii. 278 A (ed. Kaibel, ii. [1887], p. 115):—
- ο δε οψοδαίδαλος Αρχέστρατος έν τη Γαστραλογια, ούτως γαρ επιγράφεσθαί φησι Αυκόφρων έν τοις περί Κωμφδίας, ώς την Κλεοστρώτον του Τενεδίου 'Αστρολογίαν περί της άμιας φησίν ούτως.

Here Aστρολογίαν is a correction by Heringa for Γάστρολογίαν.

(6) Chean pasch, ed. Dinitori in Migne's Patrologia Gracca, 92 (1865), col. 301:—

τούτο το έτει Θαλής ὁ Μελήσιος φελόσοφος ἐν Τενέδω ἀπέθανεν.

 Leo Grammaticus, ed. Bekker, Corpus Scriptorum Hist, Byz. xxvi. (1842), p. 36—

κατά τούτους τούς χρόνους Θαλής Μιλήσιος ἐυ Τενέδφ ἀπέθανε καὶ Σίβυλλα Ερυθραία Ιγνωρίζετο.

(8) Pliny, Nat. Hist il. 8 (6), 30,

Circulorum quoque caeli ratio in terrae mentione aptins dicetur, quando ad eam tota pertinet, signiferi modo inuentoribus non dilatis. obliquitatem eins intellexisse, hoc est rerum force aperuisse, Anaximander Milesius traditur primus Olympiado quinquagesima octana, signa deinde in co Cleostratus, et prima arietis ac sagittarii, sphaeram ipsam ante multo Atlas.

(9) Euripides, Rhesna, 527-537 (ed. Murray, 1909).

τίνος ά φυλακά; τις άμειβει τὰν εμών; πρώτα δύεται σημεία και επτάποροι Πλειάδες αἰθεριαι: μέσα δ' αἰετὸς οὐρανοῦ ποτάται, εγρεσθε, τε μέλλετε; κοιτάν εγρεσθε πρὸς φυλακάν. οῦ λεύσσετε μηνάδος αἰγλαν; ἀῶς δὴ πέλας, ἀῶς γίγνεται, καὶ τις προδρόμων εδε γ' ἐστίν ἀστήρ.

Scholium (Schwartz, Scholia in Europidem, ii. [1891], p. 340) (I have for the most part rejected Schwartz's conjectural emendations.)

Κράτης άγνοειν φησι του Ευριπίδην την περί τὰ μετέωρα θεωρίαι διὰ το νέων έτι είναι ότε τὸν 'Ρήσον εδίδασκε. μὴ γάρ δύνασθαι Πλειάδων καταδυομένων «τούς ' τοῦ άετοῦ μεσουρανείν. ὑπὸ γῆν γάρ έστι τότε ο αἰγόκερως, εφ οὐ ὁ άετος ἴδρυται, και έτι Πλειάδων δυομένων ὑπερ μὲν γῆς εἰσὶ ζώδια τάδε, ταῦρος δίδυμοι καρκίνος λέων παρθένος ζυγός ὑπο γῆν δὲ τάδε, σκορπίος τοξότης αἰγόκερως ὑδροχοος ἰχθύς κριός. και ταὐτα μεν ὁ Κράτης. ἔοικε δὲ ὑπὸ τῆς φράσεως ἄμφιβόλου «αὐσης» κεκρατῆσθαι, τὰ γὰρ πρώτα σημεία και τὰς Πλειάδας ὑήθη καταδυεσθαι λέγειν τὸν Εὐριπίδην. τὸ δὲ οὐχ οὕτως ἔχει, ἀλλὰ τὰ μὲν πρώτα σημεία τῆς φυλακῆς φησι δύεσθαι, τὰς δὲ Πλειάδας ἀνατέλλειν. πῶς γὰρ ἐπὶ καταδυομένων είπεν αἰθερίας αὐτάς; ὧστε τριχύθεν τὸν καιρὸν ὑπὸ «τῶν» φυλάκων δηλοῦσθαι, ἀπὸ τῆς δύσεως, ἀνατολῆς καὶ μεσουρανήματος. ὁ μὲν οὐν Παρμενίσκος πρώτα ση μεῖα φησί λέγεσθαι τὰς τοῦ σκορπίου πρώτας μοίρας διὰ τὸ ὑπὸ τῶν ἀρχαίων οῦτως αὐτάς λέγεσθαι, καὶ ὅτι ταὐταις ὁ Βοώτης ὅμα ἄρχεται καταδύεσθαι. Κλεόστρατον γοῦν τὸν Γενέδιου ἀρχαίον οῦτως:

άλα όποταν τρέτον ήμαρ έπ' δυζούκοντα μένησι, σκορπίου είς άλα πίπτει άμ' δοί φαινομένηψι τούτο δὲ παραδείξας ὁ Παρμενίσκος ὅτι καταδύεται τὰ πρώτα σημεῖα τοῦ σκορπίου, καὶ τὰ περὶ τῆς Πλειάδος ἐπιτολῆς ἐπέξεισιν 'ὅταν γὰρ,' φησὶν, 'Κύριπίδης λέγη και ἐπτάποροι Πλειάδες αἰθέριαι, οὐ δύεσθαι τότε αὐτάς, ἀλλ' ἔμπαλιν ἀνατέλλειν ἐκ τοῦ ὑπὸ «γῆν» τμήματος εἰς τὸ ὑπὲρ «τὸι» ὁρίζοντα ἀνιούσας καὶ τοῦτο εἰναι τὸ καὶ ἐπτάποροι Πλειάδες, οἰον εἰς τὸν ὡς πρὸς ἡμῶς οὐρανὸν ἀφικνούμενοι, ταῦτα δὲ κασταστησάμενος, ὁμολογεῖ, ὑησὶ, 'τοῖς Εὐριπίδον τὰ φαινόμενα, τὰ μὲν πρῶτα σημεῖα τῆς ὥρας εἰς δύσιν κεχώρηκεν, ἡ δὲ Πλειάς ἀνατέλλει, ὁ δὲ ἀετὸς πρὸς τὸ μέσον κεχώρηκε.'

Compare Theon Alexandrinas on Aratus, Phoenomena, 719, in Mass, Commentariorum in Aratum Reliquiae, p. 470;—

"Ο τε λοφιή τε καὶ οὐρή καὶ καθ δν καιρόν συμβέβηκε τοῦ Κήτους τήν τε λοφιὰν καὶ την οὐρὰν ἐκ τῶν νοτίων μερῶν ἀνατέλλειν, τότε δη καὶ ὁ Αρκτοφύλαξ ἄρχεται μετὰ τοῦ πρώτου ζωδίου, τουτέστι τοῦ Σκορπίου, δύνειν, δε ἐστι κατὰ διάμετρον τῷ Ταύρφ.

(10) Hyginus, Poeticon Astronomicon, ii. 13, ed. Chatelain and Legendre, Bibliothèque de l'École des hautes études, 180 (1909), p. 27, fully cited by Braithaupt, De Parmenisso Grammatico (1915), p. 47:—

Hos autem hedos Chosatratus Tenedius dicitur primus inter sidera estendisse.

(11) Consorinus, De die natali, vviii, 4-6;-

Hoc quoque tempus [t.e. quadriennium], quod ad solis modo cursum nec ad lumae congruere uidebatur duplicatum est et octaeteris facta, quae tunc enneacteris uocidata, quia primus eius annus uono quoque anno redibat, hunc circuitum nere unnum magnum esse pleraque Graecia existimanit, quod ex annis uertentibus solidis consinret, ut proprie in anno magno fieri par est, nam dies sunt solidi... una minus centum, annique uertentes solidi octo, hanc octaeteridam uulgo creditam est ab Eudoxo Cuidio institutam, sed hanc (alii Jahn) Cleostratum Tenedium primum ferunt conposuisse et postea alius aliter, qui monsibus nario intercalandia suas octaeteridas protulciunt, ut fecit Harpalus, Nauteles, Menestratus, item alii, in quie Dosubicus, cuius maxume octaeteris Eudoxi inscribitur. ob hoc in Graecta muitae religiones hoc internallo temporia summa caerimonia coluntur. Delphis quoque Iudi qui uocantur Pythia post annum octanum olim conficiebantur.

All that we know of Cleostratus is deduced from these eleven passages. The first seven need not detain us long. We learn from them that he belonged to Tenedos, and it will be observed that according to the Paschal Chronicle and Leo Grammaticus Thales died at Tenedos, from which Von Wilsmowitz-Möllendorff (cited by Diels, Fragmente der V. l. p. 8) has inferred with great probability that there was a school tradition which regarded Cleostratus as the successor of Thales. As the traditional date for the death of Thales is 545 mc., this would place the flornit of Cleostratus in the latter half of the sixth century no. This conclusion is confirmed

by the passage cited from Pliny, which places Anaximander's discovery of the obliquity of the ecliptic in the 58th Olympiad, i.e. in 548-544 p.c., and Cleostratus's work on the signs of the zodiae at a later date, while further confirmation is obtained from the passage cited from Censorinus, according to which Cleostratus produced his octaeteris before Harpatus who is described in the Laterculi Alexandeini (cd Dieb, Abhandhengen der königlich preussischen Akademie der Wissenschaften [1904], pp. 8, 9) as the engineer of Xaxes' bridge over the Hellespont (481-0 p.c.).

We also learn that Cleostratus wrote a poem called Aorpologia, from which the hexameter verses cited by Parmeniscus are presumably derived. We do not know whether he left any other writings. It would appear that this work dealt with cambreva, that is, with the successive risings and settings of different stars and groups of stars. This part at least of the work may well have been based on his own observations. for observations made in a different latitude would not hold for Tonedos. Moreover, there would appear to have been little written in Greece on this subject before Clesstratus, and the passage from Theophrastus shows that Classtratus left a regutation as an observer. Like Hesiod he doubtless introduced solstices, if not equinoxes, into his series of phenomena and his method of observation is at least a sign of the care with which he attempted to obtain accurate results. The determination of the exact date of a solution remained a difficulty throughout the whole course of ancient astronomy. Even Ptolemy deduced from his own observation a date 38 hours later than the true date for the summer solution. What Theophristus probably means is that Claestratus watched morning by morning the exact spot on Mount Ida where the winter sun rose, and tried to determine on which day the sunrise point lay furthest west. The importance of the mountain would then lie in the fact that it gave a clearly defined and rapidly varying horizon, which made it easier to compare the sunrise point of one day with the sunrise point of the next. The day on which the sun rose furthest to the west would of course by the day of the winter solstice. But, since for some days on either side of the solstice there is very little variation in the sunrise point, it would be impossible to determine the solution with complete accuracy by this method. I awe this explanation to Redlich, Der Astronom Meton and even Zyklus (1854 p. 34 cited by Ringel, Handbach der mathematischen und technischen Chronologie, in (1911), p. 375. It will be noted that all the observers named by Theophrastus

the octaeters remained an astronomical conout, and there is every resem to believe that the succession of octaeterisiss and other cycles produced by the astronomics of the atth century a.c. did not one their origin to delects in earlier systems proceed by experience, but ever exception in the art of combining days, months, and years, if which the relative mean durations had been learned from Babylon.

Diele, Fregmente des Vermirentier, ils 1988, argues that several consterides must are passed before the necessary corrections small be discovered, and, therefore proposes to place Cloostratus about 520 n.c. The date is reasonable smough, but the argument implies that Cloostratus's estactorie was used in practice and Harpatus's currections were based on experience. There is no ground for either assumption. As will be seen later,

used mountains to the south-east or north-east available for the observation of sunrise at one or other subtice.

I come now to my eighth exceept, the passage from Pliny, which has cansed great trouble to the commentators. It will be observed that Pliny states that he will not postpone mention of the inventors or discoverers of the zodine or 'signifer' though he will postpone the discussion of the circles of the stars. From this we may infer that Anaximander and Cleostratus mentioned in the next sentence are to be regarded as 'signiferi immentorex' The meaning of the next sentence down to quinquagesima octana' is clear enough. Ameximander of Milatus is said to have first recognised the obliquity of the zodiac, that is to have opened the door of the subject in the 58th Olympial.' In the next chase with 'Classtratus' as anbject we have to supply the verb and also the nonn qualified by 'prima.' If we treat the sentence from a purely grammatical point of view without regard to the sense, we should naturally supply "intellexisse traditur" from the previous clause as the verb, while 'prima' should either qualify 'signa' supplied from the first half of the clause, or should mean first things or first points without a noun understood. This clause would then mean Afterwards Cloostratus is said to have recognized the signs in it, i.e. in the zodiac, and the first points or first signs of Aries and Sagittarius. The fact that no commentator has yet taken the passage in this literal way is doubtless, due to their failure to find a sense for it. One translation that has found currency makes signa' some of the signs' and then understands that Aries and Sagittarius were the first signs that Cleostratus introduced. Boll, for, vit, recognizes that the passage must main that Cleostratus introduced all the signs but fails to find a reasonable sense for the second half of the clause and supposes that Pliny's authority had atated that Cleostratus had been the first to introduce Aries and Sagittarius into the zodine. No commentator has grasped that 'prima signa' was a technical term, being the Latin translation of apora oppose, which occurs in the passage from the Rhesus of Euripides and the schollum upon it, which make up my ninth excerpt. I take it then that what Pliny asserts is that Classtratus is said to have recognized the signs in the zodiac and the moura onneig of Aries and Sogittarius.

What, then, is the meaning of wpora onusin!

An answer is supplied in the much excerpt by Parmeniscus. He says that Euripides gives this name to the first degrees of Scorpio because they are so named by the aρχαίοι and adds that Bootes sets simultaneously with these. He then proceeds to cite Cloostratus of Tenedos άρχαίος. But when the third day beyond eighty remains, or But when it or he remains the third day beyond eighty smeething of Scorpio falls into the brine at the time of the appearing of dawn. Doubtless the missing phrase on which the genitive Σκορπίου depends is πρώτα σημεία οι σημήτα πρώτα οι words to that effect; otherwise there is no point in Parmeniscus's citation of these lines as illustrative of the meaning of πρώτα σημεία. It would follow then that the phrase πρώτα σημεία was used by Cleostratus with the genitive of

the name of the sign, just as 'prima [signa] is by Pliny and as πρῶτα σημεῖα is again by the scholiast in the sentence immediately following. It may be observed that the scholiast also uses the phrase πρῶτα σημεῖα τῆς ψυλακῆς and seems to cite from Parmeniscus the phrase πρῶτα σημεῖα τῆς ὅραν: It is true that in both these instances critics have bracketed the mysterious genitives, but that hardly seems a fair way of getting rid of them. If there were other πρῶτα σημεῖα beside those of Scorpio the meaning would be clearer. The πρῶτα σημεῖα of Scorpio are the πρῶτα σημεῖα of this particular watch (ψυλακή) or season of the year or night (ὧρα). And we see that Pliny knows πρῶτα σημεῖα of two different signs

It is said to see what terrible havor has been made of this passage by the innocent little phrase sai sit vairas; à Bostyc apa aparta suvabbeadar. Grammar and trigonometry conspire to render impossible that these words can represent any statement by Cleostratus. But Schwartz and Boll, Diels and Van Wilamowitz-Möllendorff, have decreed that they do. Ignoring trigonometry and having in textual emendation a sovereign spell before which all grammatical difficulties vanish, they have dragged this phrase or words to like effect either into the text or into the exposition of the lines from Cleostratus. Poor Cleostratus! we have only two lines from him. Could not the editors have let them alone?

Let us attend for a moment to the construction. Down to the second λέγεσθαι the sentence is clear enough. Parmeniscus says that the first degrees of Scorpio are called πρώτα σημεία because they are so called by the άρχαίοι, and that, etc. Surely the phrase introduced by and that (καὶ ὅτι) can depend an φησι and φησι only. Parmeniscus says. So the statement about Bootes is made by Parmeniscus on his own authority. It could not have been made by Cleostratus, for at Tenedos in the time of Cleostratus. Bootes dul not begin to set with the first degrees of Scorpio; on the contrary it did not begin to set till Scorpio had wholly sunk below the horizon.

Why then did Parmeniscus drag in this otiose comment? It must be remembered that Parmeniscus was not merely a commentator on Euripides. He was also the author of a work on the sky, three fragments of which are preserved to us. (Numbers 18, 19, 20 in Breithaupt, op. cit.) He doubtless, knew his Aratus and the controversies that raged round him. The author of a polemic against Crates was not likely to miss an opportunity of expressing his opinion on a debated question of astronomy. Hipparchus (ii. 2, cd. Maintins [1804], pp. 140–150) discusses at great length with what sign Bootes begins to set and in opposition to Aratus, Eudoxus, and Attalas holds that Scorpio is the sign in question. It is clear from the passage which he cites from Attalus that he was not the first to hold this opinion, and it is interesting to find his view endorsed by Parmeniscus.

When Parmeniscus explains that πρώτα σημεία means the first degrees of Scorpio we must not take him too literally. Parmeniscus and his contemporaries were doubtless in the habit of specifying the degrees of the invisible ecliptic that rose and set with different stars. Hipparchus notices auch degrees for every constellation and possessed instruments for observing them. But we may rest assured that Cleostratus did nothing of the kind, much less did Euripides or whoever wrote the Rhesus imagine that a Trojan guard measured the movements of the invisible ecliptic. The moora onpula are, doubtless, not the first degrees of the sign of Scorpio on the collection but the first stars of Scorpio to set. The Greek appear, unlike the Latin signum, is never a zadiacal or other constellation, but either a mathematical point such as the first degree of Scorpio and the solstitial and equinoctial points on the ecliptic, or else an indication, such as the rising or setting of a star or group of stars which might indicate the time of year or the time of night. It is clear that the word is here used in the latter sense, except that it is not the abstract setting of the star but the concrete star setting that is called σημείου. And thus interpreted, the setting of the πρώτα onuera tallies exactly with the meridian passage of Altair, the central and brightest star of Aquila, if we make the computation either for Athens or for Troy, and for the middle of the fifth century u.c.

I wish we could as easily save our author's credit in the matter of the Pleiades. I cannot with Crates believe him to have been so ignorant of astronomy as to have referred to the setting of the Pleiades. The Pleiades that are ailegial are the Pleiades that have risen from the stream of ocean and reached the upper air. But no Pleindes should have been in the sky when the Eagle was in midheaven. They should have been about 10° below the horizon at that time. Assuming that they could be seen when their central and brightest star Alcyone was at a true altitude of 2', I find that Altair would have passed the meridian by an hour and three minutes if we compute for Troy, by an hour and six minutes if we compute for Abbens. So far from being on the meridian, it would be in azimuth 27° or roughly south-south-west at Troy, or in azimuth 29°, roughly south-west by south, at Athens. The Toors on well would have set long ago, but other stars in Scorpio would still be visible, for Scorpio should have taken an hour and twenty-six minutes to set at Troy, an hour and seventeen minutes at Athens. It is obvious that if the meridian and setting stars could not be defined more exactly than this, they would be of no use for timing the watch, So there was semething in Crates' objection after all. The author of the Rhesus does show an imperfect acquaintance with astronomy. It is true that the Pleiades would disappear rather more than half an hour before Scorpio began to appear on the eastern horizon; and our author might infer that the Pleinder would rise an equal interval before Scorpio began to disappear in the west and thus be aidipear or up in heaven when that phenomenon occurred But the problem is not so simple.

Breithaupt has expressed the opinion that wpars enquein means the first of the two signs of Scorpio, the first sign being what we call Libra, but what many of the Greeks regarded as the Scorpion's claws and named $\chi\eta\lambda\alpha i$. It is certain, however, that this is not what Parmeniscus understood by the first degrees of Scorpio, and, as we have seen, the signs of the zodiac are

never called supsia. Moreover Scorpic at Tenedes in the time of Classtratus would begin to set before Libra.

The reference to the appaias is interesting. Of course an emendator—on this occasion Dindorf—has proposed to make Cleestratus acroológor instead of appaios. I do not think it has ever been noticed that of appaios in Hipparchus and Gemmus when not qualifying a nonn regularly means the early astronomers beginning with Thales and descending as far as the third century a.c. Had this fast been realised, chronologists would not with one consent have mistaken the astronomical calculars described in the nightly chapter of Geminus for successive official calculars of Athens. The use of the same term by Parmeniscus suggests that it had acquired something of a technical meaning.

I confess that I am unable to identify either the phenomenon from which Cleostratus recknowd his 83 days or the προδρόμων άστήρ of the Rhesus.

We may now sum up the references to mpora squeia and see what they have in common. We have seen that both in the passage cited from Cleostratus and in the Hhosus the reference is to certain stars in Scorpio, presumably the first to set, and we may further notice that in both passages the setting is either at the appearance of dawn or when dawn is at hand. In other words the reference is to a morning setting, or to give it its technical name a cosmical setting, and this raises the question whether the name Toora aqueia was applied to these stars in relation to their cosmical setting only. I have no doubt that it was so. If we intra to Gemmus's Calendar, we shall find Euctemon cited (Cleminus ed Mantius 1808, p. 228) for #aft Exopmion of aparol dorepes divonair, where the reference is to the cosmical setting of the first stars in Scorpix. Enctemon we know was an appalor and a contemporary of Euripides. The adjective mpheros applied as here to particular stars is, so far as I know, unique in the Greek calendars. It is cortainly unique in the calendars cited by Geminus, I take it then that Eustemon's sitting of the whore darenes of Scorpio is the same as the setting of the moura oqueia. With this we may compare further the passage that I have excerpted from Theon. the setting Scorpio is described as to mowror Codior, though in this case there is nothing to differentiate the cosmical setting from any other setting.

That the phrase where could not be used of the first stars of any and every constellation is proved not only by the absence of avidence for its use in respect of the constellations generally, but also by the use of the phrase in the Rhesus, where no constellation is named but Scorpio is clearly intended; from which it may be inferred that Scorpio was either the only constellation of which it could ever be said whoma overal expecta or else the only constellation to which the phrase would apply mear the particular time of the night.

^{*} Cleanties by inclining among the eggment in Germinus, vir. 2. From the way in which the Appairs are habitually retimed by Himparchus.

is would appear that they were differentiated from the name madern astronomies by the inferiority of their mathematical methods

Now in what sense are the first stars of Scorpio to set cosmically antitled to be called \(\pi \rightarrow \tau a \) as distinct from other stars.\(\) To this there is a simple answer. It we arrange the different zodiacal constellations in the order in which they began their cosmical settings at Tenedos about 520 k.c. we shall find that Scorpio comes first after the vernal equinox. The vernal equinox was the starting-point of the Babylonian year and of the Babylonian zodiac. Cleestrates, as we shall see, derived his zodiac from Babylon, and therefore Scorpio took the first place among the cosmical

settings.

If then we have moore countries of Scorpio in respect of cosmical settings, is there any other series that we might expect! The morning setting would naturally be matched by the morning rising, and the zodiacal constellation which first began to rise heliacally after the vernal equinox was Aries And, sure enough, Aries is one of the constellations of which Pliny tells us that Chostranus recognised the prima signa. But I have sought in vain for any similar explanation of the prima signs of Sagittarius. The presence of Sagittarius and the absence of Scorpio are equally striking in the Pliny passage. If Breithaupt is right in supposing (op vit. p. 33) that Pliny drew his information from Varro, and Varro his from Parmeniscus, there is no room for the theory of a rival tradition here. The whom σημεία of Scorpio are abundantly attested and not least by Parmeniscus's evidence; and I incline to the opinion that either Varro or Plmy has erroneously substituted Sagittarius for Scorpio. This seems casier than to suppose that Scorpio has been erroneously omitted and that Sagittarius was inserted for some valid reason which has hitherto escaped detection.

If Parmeniscus, as would appear, took the πρώτα σημεία to mean the first degrees of the sign measured on the invisible selliptic, if, like Hipparchus, he began his series of signs with the actual spring equinox, and if he observed at Alexandra, he would find that the setting of the πρώτα σημεία of Scorpio followed the rising of the πρώτα σημεία of Aries by an hour and thirty-one minutes. On the same assumption there might be about a month between the heliacal rising of the one and the cosmical setting of the other. If these assumptions are not all correct, we must amend these figures, but there can be little doubt that to him there was a perceptible interval between the two phenomena, which would account for the phrases τὰ πρώτα σημεία

της φυλακής and τα πρώτα σημέια της ώρας.

Pliny's statement, then, as interpreted and corrected in the light of the passages cited, means that Cleostratus introduced the signs of the zadiac and the appear on acid of Aries and Scorpin. The statement about the signs of the zadiac is perfectly consistent with what we know from other sources. Homer and Hesiod give us no zadiacal stars except the Hyades and Pleiades and give us no zadiacal constellation at all. The same applies to the fragments of Musacus, Thales, Phoens, and Anaximander, and with one possible exception to the fragments of the despoyage which passed under the name of Hesiod. The one exception is the reference to the Scorpion in fragment 182 [cd Rzach, [1913], p. 202]. It is true that Frank Leipziger

Studien zur classischen Philologie, xii. (1890), p. 357, followed by Von Wilamowitz-Möllendorff, Nachrichten von der königt, Gesellschaft der Wissenschaften zu Göttingen, Hist. phil. Klasse (1895), p. 232, has held that this fragment may come from some other part of Hesiotic literature, while Rehm (Mythographische Untersuchungen über griechische Sternsagen [1896], p. 47) has on this ground alone placed the 'Aorpovoula later than Cleostratus. There is also a school, represented powerfully by Maass (Kiessling's Philologische Untersuchungen, xii. pp. 268-272), who place the poem later than Aratus. But it must be confessed that the view that at present holds the field is that the fragment in question belongs to the автрородіа and that the автрородіа is older than Cleostratus. The writer who has done most to establish the early date for the Hesiodic αστρουομία is Nilsson in Rheinisches Museum, lx. (1905), p. 180 ff. After citing two passages (Hesiod, fragments 263 and 38), where Aratus may conceivably be held to be imitating Hesiod, though there is nothing to show that the fragments of Hesiod come from the dorpovousa, he applies an argument which has carried weight with Diels (Fragmente der Versekratiker, if. p. 195) and Rzach (article 'Hesiodos' in Parly-Wissowa, viii. [1913], \$223), based on Pliny, N.H. zviii. 25 (57), 213. Pliny there cites as an example of the discrepancies of different writers on the dates of annual astronomical phenomena: 'occasum maturimum uergiliarum Hesiodus-num huius quoque nomine exstat astrologia-tradidit fieri, cum aexumoctium autumni conficeretur, Thales XXV. die ab aequinoctio, Anaximander XXXI. (1), Euctemon XLVIII. I may here put in a word of caution. It is improbable that all our authorities stated the actual interval between the equinox and the cosmical setting of the Pleiades. It is more likely that a compiler has in some cases calculated the interval from other correlations which his authority had asserted of one or both phenomena. Anyhow, Nilsson argues that of these discrepant statements that attributed to Hesiod is the most erreneous, from which he infers that it is the most ancient, holding that it is inconceivable that a late writer with trustworthy books before him would deliberately insert an erroneous astronomical statement in order to give his book an air of antiquity. Exactly the same argument had been used by Franz, ap. cit. p. 356, and I do not know why Nilsson should get special credit for it. It is to be feared bowever, that if astronomical errors are to be made a criterion of antiquity, much literature that passes as modern will have to be relegated to a remote age; and anyone who cares to eleck the dates of celestial phenomena given in the calendars collected in Wachsmuth's edition of Lydus. De Oslendis, will find numerous instances of errors as great as that attributed to Hesiod. On the whole I consider that the antiquity of the Hesiodic dorporopia is not proved. If a work dealing with the legends of the constellations belonged to the sixth century R.C., it neither set nor followed a fashion, whereas, if it belonged to the Alexandrine age it was well in the fashion. But, when we find Franz doubting whether the work did deal with the legends of the constellations, we can only reply that if his view is right we have practically no evidence left by which to date the book, nor does the

date matter to us, for it is only in a legend of the constellations that Scorpio is named.

If, however, the mention of Scorpio is not older than Cleostratus, a mention of Capricorn follows close on his heals. See Epimenides, frag-

ment 24 in Diels, Fragmente der Varsakratiker, ii. 193.

It would appear then that with the doubtful, to my mind very doubtful, exception of Scorpio, there is no trace of the mention of a zodiacal considlation in Greek literature before Cleostratus, though a knowledge of the zodiac spread rapidly after his time. The next question is whence he derived his knowledge of the zodiac, and the answer lies ready to hand-from Bubylon. An excellent account of the Babylonian zodiac by Jereumas is to be found in the article 'Sterne' in Roscher, 68 Lieferung (1914), 1446-1470. From this it is clear that the twolve signs of the zodiac were already planned out and in common use long before the time of Cleostratus. We are now learning that the Ionian school of philosophy did not consist of pioneers of original investigation or speculation. On the contrary they in large measure assimilated the products of Babylonian science. Dr. Langdon in his paper, 'The Bahylonian Conception of the Logos, Journal of the Royal Asiatic Society (1918), pp. 433-449, has shown very conclusively that the natural philosophy of Thales was of Babylonian origin and has given reasons, on which I do not venture to offer an opinion, for thinking that Babylonian influences were at work on Heraclitus. It has long been recognized that Thales could have learned the art of predicting eclipses from none but Babylonian sources, and there can be no reasonable doubt that all through the sixth century are the thought of Babylonia along with its material civilization was streaming into Greece through Ionia. I do not know of any Babylonian influence on Greek thought before the reign of Nebuchadrezzar, and the influence would appear to have been seriously impaired by the authreak of the Persian war, after which Greece, and more particularly European Greece; entered on the most original and most brilliant period of its history. The conquests of Alexander reopened the way to Babylonian influences, but the Greece that received them was far superior to Babylon in its philosophic and mathematical conceptions. It could still learn scientific facts, or astrological fancies from Babylon; it had nothing to learn in the way of abstract conceptions. Of sixth century Greece with its mind open to the barbarian later Greece was ashamed. Barely an admission as to be found in Greek sources of anything in science or philosophy learned from the Chaldaeans, the enomies in the golden age. What Thales loarned abroad he was said to have learned from the Egyptians. Even Herodotus, who, as became an Asiatic Greek, still cherished in the fifth century B.C. an admiration for the civilization of the East, is accused by Plutarch of being deloSapSapos (D. Herodati Malignitate 857 s. ed Bernardakis, v.

I am assured by Dr Langdon that the evidence in the case of Cancer is mostly- a factory.

^{*} Herodutin a knowledges the sun-dial, the gromon, and the twoler hours of the day.

[1893], p. 214). And even to-day the history of the Ionian school is worked up for us by some of our leading scholars, with baroly a hint, that either its philosophy or its astronomy was of eastern origin. Democritus is an exception. It was admitted that he travelled in Babylon and other eastern countries and learned much of Babylonian lore. I shall have more to say of this Babylonian influence when I come to deal with the lunar cycle.

I need hardly mention that the statement that Cleostratus was the first to name the Kids is consistent with the absence of their name from earlier writers. If he was the first to write a systematic poom on the constellations, there must have been many names which the later Greeks found in him and

in no earlier writer.

I take it then that Cleostratus imported the signs of the zodiac and perhaps some other constellations from Babylon. He probably combined these with names of stars and groups of stars already used in Greece, and found from his own observations the order of their risings and settings and how these stood in relation to the solstices—no small work if it had stood alone.

But there is also attributed to him the invention of the octaeters or the eight years' cycle of intercalations, at least Cemsorinus gives it as one of two accounts. The alternative view that regarded Endoxus as the author of the first octaeters is manifestly mistaken, and Cemsorinus was clearly right in preferring the view that he merely produced or obtained the credit for a

perfected octaeteris.

The view that Chostratus was the author of the first octaeters is nowhere challenged in antiquity, but it is almost universally rejected by modern wholars. In some measure Censorinus is responsible for this result, for he holds that many eight-verily religious rites in Greece, and notably the Pythian games owe their period to the octaeteris. Now, of course, these eight-yearly festivals go back beyond Cleostratus. If therefore, Consorinus was right in explaining the eight-yearly festivals by the octaeteris, he was wrong in attributing the first octaeter's to Cleostratus. But Consorring's explanation of the eight-yearly festivals is suriously compromised by his explanation of the four-yearly festivals. These he regards as older than the eight-yearly, and be explains them by the four years' cycle, which equates an exact number of solar years with an exact number of days, our own leap-year period in fact. Now, it is impossible to believe that such a cycle was known or could have had any calendarial aignificance if it had been known in early We are driven, therefore, to the conclusion that Censorinus's connexion of the festival periods with periods of intercalation is not a valid historical radition but the firmey of a later age. And in fact it is essier to explain the festival periods as more powers of two. We have two-year festivals, and four-year festivals, and eight-year festivals.

But our scholars will not have it so. Greek legends have been ransacked for intervals of night years or nine—for, of course, nine may mean eight reckoned inclusively, though in some passages cited it clearly means nothing of the nort. I shall not deal with these hors. Those who care for such

things will find them in plenty in the works of Otfried Muller, of Bockh. Sir James Frazer, and Mr. Cornford. Some discussion of them will be found in a posthumous work of the late Mr. W. H. Forbes on the Attic calendar and chronology of Thucydides, in which I was privileged to give him a little assistance, and which I am now editing. But I may venture on a reference to W. H. Roscher's two papers. Die Ennead, und Hebdomad. Fristen und Wochen, Abhandlungen der kön, säche, Gewilschaft der Wissenschaften, Band 48, Philolog. Hist. Classe, xxi. (1903), and Sieben- u-Neunzahl im Kultus u. Mythus d. Griechen, Widd. Band 53, Philolog. Hist. Classe, xxiv. (1904), where it is shown what an important part all the early odd numbers 3, 5, 7, and 9 play in Greek legend and religion.

The attempt to find an octaeteris in the Olympic festival might seem more plausible to the unwary. We have a statement in Porphyry on Head, x. 252, ed. Schrader, p. 148, that the Olympic games were celebrated at intervals of 50 and 49 years ¿caλλάξ. These alternate periods are supposed by the moderns to make up the 99 months of the octaeteris. Now Porphyry's object is not to explain nicely the rules for fixing the time of the Olympic games but to illustrate the use of round numbers by the poets in this case 50, while the unpoetic numeral 49 is ignored. It would be sufficient for his purpose if these two intervals normally alternated as in fact they would in any well-regulated luni-solar calendar. I have thought it worth while to examine the Olympic years of the nineteenth century. Assuming that in modern, as in ancient, times the Olympic year is that following the Julian leap-year, and examining the date of Easter full moon in Olympic years, I find that from 1833 to 1909, the Easters of Olympic years fell alternately at intervals of 49 and 50 lunar months, yet it is known to everybody that our Easter full moons are regulated not by an 8 years cycle, but by one of 19 years.

A scholiast on Pindar, Ol. iii. 35, says that the race was held sometimes after an interval of forty-nine months, sometimes after one of fifty, δθεν καὶ ποτέ μεν τῷ ἀπολλωνίο μηνί, ποτέ δὲ τῷ Παρθενίψ ἐπιτελεῖται. Now δθεν is of course absurd. Even if the games had been always in the same calendar month, we should have expected this variation between forty-nine and fifty month periods, but the statement that the games were sometimes in Apollonius, sometimes in Parthenius, has been supposed to lend colour to the theory that they were governed by an octaeteris.

Another scholiast in two very corrupt scholia gives us the clue to this variation of calendar date, though I do not find that the explanation has ever been grasped. The passages are best studied in Drachmann's edition of the Pindar scholia, i. (1903), p. 114, and in Weniger's article in Klio, v. (1905), pp. 1 ff. I reproduce the passages, but do not vouch for the text:—

ή δη γάρ αὐτῷ περὶ τοῦ χρόνου καθ' δυ ἄγεται τὰ 'Ολύμπιο καθ' ἐκάστην 'Ολυμπιαδα, καὶ Κώ<μαρχος> ὁ τὰ περὶ κλείων [potins 'Ηλείων] συγκατάξας φησὶν οῦτως: πρώτον μὲν οὖν παντὸς περὶοδον συνέθηκεν ἐν τῷ ἡμέρᾳ ἄρχειν νουμηνίαν μηνὸς ὁς Θωσυθιὰς ἐν 'Ηλιδι ὁνομάζεται, περὶ δυ τροπαὶ ἡλίου γίνονται χειμεριναί. καὶ πῶ 'Ολύμπια ἄγεται η' μηνὶ ἔνὸς δὲ Ι.Π.S.—ΥΟΙ. ΧΧΧΙΧ.

όντος διαφέρουτων τη ώρα, τα μέν άρχημεν της όπωρας, τα δε ύπ αὐτον του Αρκτούρου. ότι δε και άγεται ο άγων, και αὐτος ο Πίνδαρος μαρτυρεί.

διχόμηνις: διχόμηνες περί την ις πανσελήσου ούσης άγεται τὰ Όλύμπιο, τουτέστι ούμηνία [διχαμηνία i] Παρθενίου ή Απολλωνίου μηνός, παρ' Αίγυπτίους Θώθ ή Μεσωρίων.

From the earlier of these passages I infer that the Elean month Thosythias fell about the time of the winter solstice, and that the Olympic festival was celebrated in the eighth month after Thosythias. Which month this would be would depend on whether an intercalary month had been inserted since Thosythias. This explanation assumes that the proper place for an Elean intercalary month was somewhere in the seven months following Thosythias, and it suggests that a vague coincidence of Thosythias with the winter solstice may have played the same part in the popular conception of the Elem calendar that the vague coincidence of Elecatombacon with the summer solstice dial in the popular conception of the Attic calendar. The reason for keeping the Olympic festival at a fixed interval from Thosythias irrespective of interculations was, very possibly, that some of the feasts falling before the intervalation were of the nature of a preparation for the great festival, which had to follow them at a fixed interval. Moreover, if the Eleans intercalated at short notice, they may have thought it undesirable that the intercalation should affect the date of a pan-Hellenic festival like the Olympic games. It would appear then that the fact that the games were sometimes in Apollonius, sometimes in Parthenius, had nothing to do with the octaeteris. It merely meant that there was sometimes an intercalation between Thesythias and the games and sametimes not. And of course there is nothing to praye that the rule given by the scholiast is uncient Comarchus, if it is Comarchus, may have lived in the fifth, fourth, or third century g.c. We can only date him from the fact that a scholium on Plato, Phuedo 80, names him along with Pherecycles of the fifth century and Istrus of the fourth century, R.C.

I have already alluded to the eighth chapter of Geminus which describes the gradual growth and increasing perfection of lunar cycles, aming at comprising an exact number of natural days, months, and years. I am convinced that this chapter has nothing to do with the calcochers actually used in Greek cities, but only with the cycles propounded by astronomers, which may have influenced the cities, but would appear never to have been adopted by them. The early cycles are the work of oi appears, which according to Geminus's usage, should mean the early astronomers. If anyone doubts, let him look at the attempts made to explain the Attie intercalations of the fifth and fourth centuries no, by either the eight years or the nineteen years cycle. Every investigator has to find reasons why his schome of intercala-

According to Drawinson this retire MS.
reading, which he takes to expressent appearent. We diger on the authority of Tycho
Monnessa gives applicate.

This miliper will be more fully treated in Mr. Furles's book on the Attic Calendar and Caronology of Thusyshiles.

tion does not fit the hard facts of the historical evidence. The simplest explanation is that the Athenians recognised no law of intercalation. The practical man treated the man of science with a contempt only one degree less profound than the contempt with which the man of science treated the rest of manking.

What writers on the Greek calendar have never grasped is that in the ancient world cycles of intercalation were all but unknown to civil calendars whether Greek or barbarian. Wherever we have evidence, it would appear that the number of months in the year was determined annually not by rule of thumb, but by some living authority, just as the number of weeks in each recation is determined annually in the University of Oxford by Holdomarkal Council.

If the Greek cities had desired, like modern Christians or modern Jews, to maintain a common calendar, they would doubtless have found it most convenient to regulate their intercalation by calendar rule, but, while each city regulated its own calendar, it was found most convenient to determine the question of intercalation year by year, just as Hebdomadal Conneil

annually arranges the academic year,

Let him who has further doubts on this subject turn to Father Kugler's Stepnkunde und Sterndiened in Babel, Ergünzungen zum ersteu und zweiten Buch (1913), p. 131, where the author shows that down to the year 528 R.C. intercalation at Babylon was largular. The figure 528 appears to require revision, for the list of Babylonian interculary years given in Ginzel, Handbuch der mathematischen und technischen Germulogie, i. (1906), p. 133, supplemented by it. (1917), p. 499, is consistent with the use of an octactoris from 533 to 503 n.c. For the earlier part of the sixth century n.c. av can by means of numerous contract tablets, identity most of the interculary years, and there can be no doubt that the intercalation was irregular. On the slowness with which cycles of intercalation came into use in antiquity, see Ginzel, op. cit. iii. (1914), pp. 366, 367. Intercalations were then unsystematic in Athens of the lifth and fourth centuries a.c. and in Babylon before 523 and after 503 na. The Jewish intercalation was still irregular, and was determined annually at the time represented by the Talmud. According to that work, regard might be had to the state of the muds, the bridges, and the passover-overs, to the possibilities of pilgrims who had already started arriving in time for the passover, to the growth of the goats, lambs and pigeons of the corn and of the fruit and to the number of days that had to clapso before the equinox. Intercalation according to some rabbis was to be avoided in a year of famone and in a sabbatical year, and a court might be influenced by the fact that the next year would be or the last had been a sabbatical year. In fact, almost anything might affect the decision except the place of the year in a cycle; (Bubl. Talmud, Synhedrin, 10-13 ed, Lazarus Goldschmidt, vii. [1902] pp. 32-43.)

One may go further and say that from any cycle of intercalations it is possible to deduce mean lengths of the calendar mouth and calendar year, which in any calendar are intended to agree with the mean lengths of the true month and year. Whenever, therefore, a cycle of intercalations existed, there should be some exact value assigned to these periods. Hesiod, of course, suggests no such knowledge. He gives a few intervals between annual astronomical phenomena, so that you may know how the year is progressing, but he expects his husbandman to know the seasons, not by numbering the days, but by observing the sky. The Greek doxographers know of no astronomer before Thales. We have preserved to us the names of many literary men of older date, but of no astronomer, and the inference is that Greece had no astronomer before Thales, and no exact knowledge

of the lengths of months and years.

This is important, because all our evidence goes to show that the very idea of a cycle is a product of exact astronomy, and we have no knowledge of the use of a lunar cycle anywhere in the world before the time of Thales. Probably the oldest limiar cycle is that of 223 lunar months or 6,5851 days. about 18 years and 11 days, which Surdas calls the o'agos, and Ptolemy (iv. 2, ed. Heiberg I. [1898], p. 270) the maprobacos xpovos, or the same period multiplied by 3, i.e. 669 lumar months or 19,756 days, about 54 years and 33 days, which Geminus (chapter aviii.) and Ptolemy call the Fraymor, Prolemy regards these as the discovery of of err παλαιότεροι as distinguished from οι παλαιοι μαθηματικοί. He describes Hipparchus as having detected a small error in these periods, but does not suggest how far beyond the time of Hipparchus the knowledge of them went. These cycles were not used for intercalation, though it would appear from one Babylonian tablet of perhaps the fifth century ac that it was known at that time that the sun moon. and fixed stars returned approximately to the same relative positions in 27 years. See Kugler, uhi supra. The cycles of 18 and 54 years were cycles of actipses. Now, while no exact knowledge of astronomy and therefore no astronomical cycle was needed to determine when an intercalation was due, nobody could predict an oclipse without some exact astronomical science. In Sternkunde und Sterndienst in Bubel, ii (1909), pp. 58-77, Kugler argues forcibly that the Assyrian predictions of eclipses in the seventh century i.c. were not made by cycle, but were anticipations deduced from observations made a few days before the expected time of conjunction or connesition. But a prediction at a longer interval involves the use of a cycle. and, as Herodokus (i. 74) informs us that Thales predicted a change of day into night (i.e. a total celipse of the sun) for a particular évaurés, which I suppose means 'year,' he must have used a cycle. He doubtless learned the cycle from the Babylonians though, as it happens, we have not yet run across an example of its use in Babylon before his time.

The first requisite for an exact determination of an astronomical period is a continuous measure of time. If you have no fixed rule to determine whether a particular month is to contain twenty-nine or thirty days, or a particular year twolve or thirteen months, it is of no use to know the year, month, day, and hour of an old observation, unless someone has been at the trouble to compile a list showing the length that has actually been assigned to each month and each year from the time of the old observation

to the time of the new observation with which you wish to compare it. And, it the old observer has like most Babylonian observers down to the seventh century a.c. recorded only the month and day of the month with the vaguest indication of the time of day, leaving his successors ignorant of the year and the hour even a canon of years, months and days, will be of little use. There was of course no such canon in Greece until the the selfregulating calendar of Meton was invented for the purpose of providing a continuous record of time and it is interesting to observe that Ptolemy, who generally derives his observations from Hipparchus, cites no Greek observations before the time of Meton. Of what use would they have been without such a canon to correlate them with later observations ! On the other hand Ptolemy cites an abundance of Babylonian observations going back nearly to the reign of Nabonassar, in which dates are expressed in Egyptian vague years, reckoned from Nabonassar's first year (747 a.c.). There is only one possible explanation of this fact, but it would appear that so far the explanation has been missed. Someone must have compiled a canon showing the number of days that had been included in each Babyloman month and the months included in each Babylonian year from the first year of Nabonassar onwards. Probably it was a great canon containing not only the longths of each mouth, but a dated list of observations made during it. The measure of accuracy in the eighth century observations cited by Ptolemy is, as Kugler remarks, about equal to that of the better defined observations preserved on cuneiform tablets of that age. Their chief value for subsequent astronomers lay in the fact that unlike most of the Babylonian observations of that age they were carefully dated. Now if such a canonof observations was brought down to a date when it could be compared with the Egyptian vague year, it was a simple matter to convert all the dates into the Egyptian calemiar, and Hipparchus naturally preferred to express the dates in the Egyptian calendar, in which all months were thirty days long and all years 365 days long, a calendar in which calculation was easy and to which in all probability his own tables were accommodated. It will be observed that the significance of the era of Nabonassar lies simply in the fact that this canon began with the first year of his reign.

With such a cauon before them it was no impossible task for the Babylonian astronomers first to map out the intervals between different eclipses and next to discover that they recurred in cycles such as have been mentioned above. The eclipse of Thales (585 nc.) was 162 years later than the accession of Nabouassar, so that by his time the Babylonian astronomers had a long series of eclipse observations at known intervals. An eclipse, unlike a new moon, could be dated to an hour by direct observation, and it is reasonable to suppose that the indications of time were steadily made

more exact as the idea of seeking or testing a cycle took shape.

A difficulty has been made in the interpretation of the prediction attributed to Thales on the ground that the 'saros' gives from two to five solar eclipses for each year and provides no means of determining which of these will be total or even visible at a particular place, while when the 'saris' does give the date of an eclipse, it gives not only the year, but the month, day, and hour.' From this it would follow that a prediction of a solar eclipse for a particular year by means of the saros' is rather an absurdity, and it has been suggested by Tannery (Pour l'histoire de la science helline, p. 60) that Thales picked up a monder of predictions on his travels from an astrologer, and; after verifying some of them, centured to assert one of the predictions on his own responsibility, and by a stroke of tack this prediction was fulfilled in the shape of a total celipse of the sun visible in Asia Minor. Now it is true that a modern astronomer uses relipse cycles merely for the purpose of discovering the dates of eclipses and, in the case of solar eclipses of getting some vague indication of their magnitude on the earth generally. He discovers by more claborate means whether a solar eclipse was visible at a particular place, and, if so, what its magnitude was.

But this does not mean that the 'sares' or exercise cannot be used to make predictions for a parlicular place. The apposite is the case. Each (Ethrynos brings an selipse back to much the same hour of the day and to much the same track. A sandy of all the solar eclipses visible at Babylon from 700 s.c. to 556 n.c. shows that where the sun was above the horizon at the recurrence of the colipse; the local magnitude was generally much the same as it had been lifty-four years previously. A total eclipse recurs as a total selipse, but the belt of totality generally shifts steadily morthwards or southwards. If the magnitudes of the ten largest eclipses visible at Babylan at their greatest place between 700 and 610 a.c. inclusive are taken from Ginzel's Specieller Kurion der Frusternisse (1899), it will be found that seven of the ten recurred after fifty-four years with the sun above the horizon. Measuring an celipse by the proportion of the san's diameter obscured, and reckoning the diameter according to astronomical usage in twelfth parts or digits, we shall find that four of these seven recurred at Babylon with a magnitude changed by less than one digit, and that two of the three others recurred with magnitudes changed by less than two digits. In the seventh instance the magnitude was changed by 48 digita, but in no case was the celipse invisible at Babylon when the sun was above the horizon at the time of the recurrence of the selipse. And, as the cycle tells us whother the sun will be above the horizon or not, it is really a very sate guide for the prediction of solar religions. It is true that the eclipse of 585 B.C. must have been foretold by means of that of 603 p.C. not that of 639 B.C. that is by the 'saros, not by the exercises, but the fact that the time of the eclipse varies by night hours from one 'saros' to the next has the result that the ann is usually below the horizon at a recurrence after a saros' period so that predictions by the 'suros' cycle would not be available so often as predictions by the Eckeypios.

Martin on Result Acceptologique, motive sorie, in (1864), pp. 170-190, makes much at these difficulties. Newcount, Researches on the Motion of the Moon, Pars I (1878), pp.

^{28-30,} rejected the prediction for the reason given in the text lags in Part II of the same work (1912), p. 231, he stated There can be little doubt that Thules predicted this collipse.

Solar eclipses visible at a particular place do not occur every year. Once in four years is nearer the average. There is, therefore, nothing absurd in Thales having predicted a solar eclipse for a particular year by means of the 'saros.' He would appear from Herodotus's statement to have also predicted its totality. That of course he should have been able to do, so long as he did not venture to say where it was to be total. If, as the passage would seem to imply, he predicted the year, but not the month or day, the reason may have been that he did not know the precise date of the colipse of 603 B.C., or that, if he knew it, he did not know how many intercalary months had been inserted since that date. He probably had not necess to

the Babylonian cauon of years, months, and days.

If we acknowledge, then, that Thales was already in possession of a cycle of exlipses, the step to a cycle of intercalations is quite easy. A cycle of intercalations, as the Greeks understood it, has to satisfy three requirements; it must contain at once an exact number of days, of lunar months, and of solar years. The cycle of eclipses provided at once the number of days in a lunar month. The 'sares' contained 223 lunar months, amounting to \$5854 days. This gives 29244 days for each month, a number of days which exceeds the traditional lumation of 294 days by the day almost exactly. This anggests a period containing some multiple of thirty-three months in order to obtain at once a whole number of days and a whole number of months. A period of ninety-nine months fulfils this requirement and is also very slightly in excess of eight solar years. Eight solar years were according to the best science of the sixth century, s.c., 2,922 days long, while mnety-nine menths of the length just determined amounted to 2,9231 days. So an approximate cycle of eight years might be made to noclude 2,922 days or an approximate cycle of sixteen years to include 5.847 days. Here we have what Geminus regards as the first and accound forms of the octaeteris. But as has been seen, intercalation in Bahylon had always been independent of cycles, and the octanteris was certainly the result not of any civil necessity, but of a scientific appetite for a systematic rule. It does not appear that the Babylomans ever regarded it as part of their calendar system. We have seen that it was actually used from 533 to 503 e.c., and then set aside, but that may have been due to the influence of some influential astronomer, who farcured this cycle, and who ceased to advise or ar all events to get his advice carried into effect after 503 Re.

But those thirty years were just the age of Cleostratus. Then and then only could the octaeter's have been imported from Babylan to Greece, and, as in the case of the zodiac, it was Choostratus who transplanted the idea into Greek science. His solstice observations may have had some relation to this cycle for harmonizing the periods of sun and moon, though they would be equally useful for the purpose of armaging in their proper order the annual phenomena which probably constituted the greater part of his poon.

It is curious that he should have left so slight a name and yet have exercised so great an influence. The name of Thales looms large through the tradition of Greek philosophy both among ancient and among modern writers.

His famous prediction seemed a marvellous feat of skill, but he did not transmit his science to succeeding generations, and the art of predicting eclipses had to be learned again from Babylou in the Macedonian period.

Cleestratus, like many of Earth's wisest, seems to have held no opinions and left no material for the doxographers. His poem, like many another astronomical poem, was rendered antiquated by Aratus. The signs of the zodiac survived, but others used the names and figures with greater skill. He started a fashion for making and perfecting luni-solar cycles, which provided plentiful exercise for the ingenuity of astronomers from his age down to Hipparchus, but the glory went not to him but to the authors of the cycles that were more widely current in a later age, Meton and Eudoxus. Had he not found a 'vates sacer' in Parmeniscus, we might have known nothing of his two great importations of Babylonian science, for which we have to thank him the more because they were made in that last generation before Greece lost the power and the will to absorb the learning of the East. Breithaupt (op. oit p. 33) at least contends with great. plausibility that the references to Cleostratus in Hygmus, Pliny, and Censorinus are all derived ultimately from Parmeniscus, as the reference in the Euripides scholium professedly is. On so small a thread has hung the fame, mengre at best, of one whose work has lived when its author has been forgotten.

J. K. FOTHERINGHAM.

SOME BALKAN AND DANUBIAN CONNEXIONS OF TROY.

PREDISTORIC research shows us that in the troubled section of Europe known as the New East there existed as early as the neolithic period several culture groups which may be classified under four heads as follows:—

- (1) The Aegean, Minoan-Mycenaean group:
- (2) The Thessalian
- (3) The Upper Balkan and Danubian.
- (4) The South Russian and allied groups.

The first of these is so familiar that we need only emphasize its continuity from the neolithic period through the Bronze Age and the fact that, although eventually it was widely diffused through the Mediterranean from Spain to Cyprus and the coast of Palestine, in the Aegean area uself the northern limit on the west coast was Thessaly, which it reached in the L. M. period, and on the opposite shore the single site toward the north is Troy, where L. M. is contemporary with the VIth city. The sporadic examples on the coast from Thessaly to Troy are very late and apparently had little influence.

The excavations by Messre. Wace and Thompson in prehistoric Thessaly, which included considerably more than one bundred sites, have led them to differentiate a large number of styles of pottery, including red monochrome, red or black incised, or else painted either light on dark or dark on light in many varieties. The designs are predominantly rectilinear and more closely aking to the northern groups than to the Minoan. These styles extend from the Neolithic, through Chalcolithic to the Bronze Age, with gradual changes and no violent break until the close of L. M. H. This tallies with what had already been known of Minoan influence on the Thessalian coast. The terracetta figurines are also quite different from the island or Aegean type and belong to the short and stumpy styles of the mainland. The excavators believe that except for the Creto-Mycenaean vasca (L. M. H. and HI.) there seems to be hardly any direct connexion between Thessaly and the south-eastern regions of the mainland, neither did the Cycladic (Island) styles have much influence. Even when at the close of the Minoan period

Wace and Thompson, Prehistoric Thessity, pp. 13-23.

^{*} Rod. p. 225.

¹ Hid. p. 231

that civilization came into contact with Thessaly, it did not replace the local wares but continued side by side with them and what influence there was resulted in a somewhat hybrid style.

It is therefore, not to the south but to the north that the excavators

have looked for connexious with Thessaly."

On the basis of a few sherds, one cup and one bowl, Dr. Tsountas is inclined to note a relationship between Thessaly and Troy, but Messrs Wace and Thompson do not agree with this view and regard the Trojan wases as unlike the Thessalian in most respects.

The occurrence of Minyan ware at Troy VI, and VII, and in Thessaly need not prove any direct communication although it may be inferred. The

origin of Minyan ware is still uncertain.

The Thessalian portery seems to be affiliated with the north Balkuns

through a ware which may possibly be of Macedonian origin.

Adequate information is not yet to hand about Macedonia, but so far the connexions of Thessaly lie northward. The figurines have their closest analogies in Thrace and the decorative motives of the Dhimmi ware, a combination of spiral and geometric, unite Thessaly with Thrace, Roumania

Galicia, Bessarabia, and South Russia*

Thessaly continued in the neolithic or sab-neolithic period when the Aegean and the Serbian-Troy areas had reached the Bronze Age. Troy, which was situated on very important trade routes (as we shall see later), was connected with the Anatolian district on the east, and on the west through Serbia with other parts of Europe, but Thessaly lay too far south for this line. She was also off the Mycenacan trade routes, thus forming an isolated sert of backwater between these two great metal-using areas, and serving as a haffer State to keep central and southern Greece protected against the Danubian peoples. Later on when the Mycenacan people removed the barrier (by trade or compast), or when the restlessness and pressure from the rear sent more and more invaders into the Greek pennsula. Thessaly was in their path and many of the northerners followed that route. In fact, in the days of the Achaeans, Thessaly was one of the

evidence both in the Cyclodes and on the mainland of Greece.

Mr. V. G. Caphie's study (J. 17.8, 1915, pp. 190-297) of the steatimenths of sites in Phoelswhich show Minyan ware in all stages of development leads him to believe the vasse were not imported from Troy. Neither does be believe in a Trojan conquest, but he thinks that Minyan wave, if needs in Troy, contribute been pussed along via the neithern Cyclades where some finds in Syramial Naxus similar to Troy II.-V. show that contact had been established.

[&]quot; Hatte p. 207.

Ibil ch, xiv,

Mr. R. J. Forstyle (J.H.S. 1914, pp. 120-150) regards it as a Trojan labra, and augusts that Greece was note a Trojan presumo and that the Trojan War reserves a struggle for the power-soon of both aides of the Argenn. He believes that the power which kept the Mineans from the coast of Axia Mines was a people whose most be mid-able arts was Troy.

This brilliant and interesting hypothesiscan hardly be maintained since the Minyan ware has not been proven Tropas, there are no remains like the Tropas anywhere along the reast of Asia Minor, and the theory runs counter to a great deal of archaeological

Waco and Thompson, Prekistoric Ten-

⁴ Hill p 232

⁴ Hid, p. 240.

great centres of the Hellenes, and it is quite possible that the shaggy Pheres and barbarons substratum which Homer suggests afford a real hint of internal wars. The contrast between north and south Greece which we find in Homer corresponds with the facts so far as we know them. An interesting by-product of the discussion of Thessahan civilization is a suggestion about the Pelasgians. There is no intention of entering on the Pelasgian controversy at this point particularly in the face of the most reasonable explanation made by Dr. Leaf, but if Pelasgian implies ancient, out-of-date and uncivilized, it well describes the Thessalian people, the barbarons Pheres, Magnetes and Centaurs. The crude remains, such as the ithyphallic and steatopygous figurines, point in this direction. It seems at any rate a great mistake to make Pelasgian equal Mycemaean as Professor Ridgeway does, for Wace and Thompson show that the most Pelasgian spots are exactly those which are the least Mycemaeau.

Father Browne to mentions the fact that there is a gap in Homer's geography which corresponds to Macedonia and that the poet knows the Trojan-Thracian group and the Greek, but not that which comes between

There is a corresponding blank spot in Homer's Asia Minor (all along the coast) explained as the probable possessions of the Hittites, whose power had been flourishing since Minoan days and had prevented the Cretan manners from settling in numbers on that listoral.

One need not suppose an equally powerful people on the Greak side of the Aegean, and Father Browne suggests that this north-western gap may indicate a thrust of barbarians whom the bards either did not know or preferred not to recognize.

I think if there is a blank spot in Homer's record it lies farther south, as Macedonia is accounted for by the Paconian albes who formerly occapied more territory than they did in historical times. And while it is still premature to say much about Macedonia, the excavations tend to bridge over the gap between Thrace and Thessaly. Thessaly, rather than Macedonia, appears to have been the backward tarbarous area.

It is not, however, with the Aegean or Thessalian areas that this paper proposes to deal, but with the peoples who inhabited the Danube Valley and kindred regions.

In the interesting eleventh chapter of The Discoveries in Coste, Professor Burries gives an admirable summary of the finds in certain districts of South Russia and its vicinity, an area which be compares to a triangle the base of which extends from Kiev to northern Bohamia, the western side

¹¹ Lend, Trop, A Study in Homeric Geography, th. vil.

[&]quot;Were and Thompson, Prohistoric The-

usty, ch. xvil.

11 Rrowne, Hundbook of Homeric Study's,

pp. 173, 282.
is Hogarth, Innia and The East, pp. 47, 101, 102.

M According to Wass and Thompson (op-

cit App. L. p. 258) the The-sallin pottery commented with Moldavia belongs to Th. II., that commented with Serbia to Th. III.) It is therefore possible that there was once connexism between the Thossalian and Mohlavian areas and that later the Serbian style split this area and extended over to Tray. This would account for the degeneration in the later The-sallan periods and also at Cucutoni.

through Austria to Trieste and Bosnia, the eastern through Podolia and Bessarabia into Roumania; an east-central line comes through Bukovina and Transvivania, a west-central line through Hungary into Serbia. The eastern line may be extended through Eastern Roumelia, Troy and Yortan in Mysia.10

Not all the culture in this area is of exactly the same type, and it may be classified as indicated on the map (Fig. 1), which shows the close relation-



Pio. I - Distribution of Painted and Income Warse in

- Painted pottory of Kiev-Tripolic cyps.
- ☐ Painted pottery of similar styles.

 △ Incised postery.
- 3 Both painted and incisal wares.

¹⁰ Burrown. The Discourries in Crote, eb. at. pp. 184, 185; Minns, Scythians and Greeks,

pp. 132-142 | Wass and Thompson, Cl. Rev.

^{1909,} pp. 1233-1238.

in Salonian should be marked 2

ship between Troy and the Balkan district in what Professor Myres has described as the Great Diagonal Line.

The first group, marked on the map by squares, shows the area of the remarkable polychrome painted pottery with spiral and naturalistic designs which belongs to the neolithic period, side by side with the incised fabrics which ordinarily characterize that age. This group may be further subdivided into:

(1) The Kier-Tripolic culture, and

(2) The sites with pottery of similar styles.

The first is marked by solid squares, the others by hollow squares: those which lie furthest west have fewer points in common with Kiev than have the Calician sites.

The areas about Kiev, often described as the Tripolia culture (from Tripolje which is forty miles below Kiev on the Duiepr) are arranged in circular groups on high ground which slopes to the water on the south side. These areas were dug out to a depth of from two to four feet and are rectangular in shape, varying from five to ten yards in length and from six to eight in breadth, or occasionally as large as twenty by twelve. The walls were of wattle and clay, sometimes whitewashed and painted red or adorned with a cornice. The floor was opparently of hardened earth and the many lumps of clay which were strewn over it may have been parts of the roof. Amongst these clay fragments were found pottery of distinctive types to be described later, axes of horn or flint, sling stones, grinders, shells, bones of ammals, tortoise shells, and small clay figures 'that distinctly recall those from Hissarlik 117

Characteristic shapes of pottery are the opera-glass, and conical pots with a foot or with angular outline. Spirals or wavy patterns in ribbon-like effects are made by four or five parallel grooves or else painted in reddish or brownish colour on a yellow or red ground.18 Leaf designs are painted in brown on white or cream, and sometimes a light-coloured design is outlined in brown or black.19 The rure human figures recall the Dipylon style but are less attenuated." The figurines show progress from cruciform or slab-like idels to well rounded forms. Many have bird-like faces " Although most of the axes are of stone, copper is beginning to be used.

It seems improbable that these areas can have served as dwellings as there are no remains of food, discarded pottery, or a permanent hearth. Chroika believed them to be tombs, although no bones have yet been found. Later discoveries, however, have furnished syndence of both cremation and inhumation.22

Podelia and Petreny belong to this group One vase from Podelia represents gouts, a deer and a dog on the upper zone. Others have backgrounds of black, light brown, yellow or grey with spirals and curves

¹¹ Minus, op. cit. pp. 133-140 ; Figs. 28, 31

²⁰ Part. Fig. 32.

Itid. pp. 133-139; Ptgs 29, 30, 32
 Itid. Ptg. 30

at Ihad. Fig. 33.

⁼ Rad. p. 110.

in white, red, orange or brown. The same colours and patterns occur at Petreny where in some cases the designs have been painted in black or violet brown on the natural red or yellow surface of the clay, in other instances there is a slip of red or brown (polished) or yellow or white (dull). Though the animals and human figures are not so good as at Tripolje or Pedolia, the general effect must have been rich and varied. Knobs and small handles are found, but there is little incised work.

This pottery may have been evolved in Russia or have been derived from alsowhere. Some scholars advocate an Aegean origin, but as far as one

can judge from illustrations the resemblances are slight.

It seems rather strange that so much effort has been wasted in endeavouring to derive either the Aegian styles from the Russian-Danubian Both sides of the case have been well summarized by or vice versa, Professor Burrows," and the third view, namely, that of a pamilel and independent development, is also presented. This is the view preferred by Dr Hoernes " and Messrs. Wace and Thompson " and appears the most reasonable explanation , Besides the fact that there is almost nothing common to the two except painted pottery and the spiral there is the fact that between them there intervenes a fairly broad zone which includes Thessaly and the upper Balkans, each with rather distinctive styles of their own, and had this painted spiral motive passed through the Balkan poninsula either in a northward or southward direction, it surely would have left some traces. There remains the alternative of a sea-route but insuperable objections to this are that few traces of Aegean civilization have been found on the coast anywhere between Voice and Troy, and no remains of Minean pottery in South Russia or Thrace, and that it would have had to pass right through the Serbian-Trojan zone.

In any case, we find it superior in style to most other places in the neolithic period. As its Scandinavia the isolated position allowed fuller development of the neolithic technique in stone objects, so here the lateness of the knowledge of metal afforded the neolithic artists opportunity to develop the pottery which was their forte. Dates are hardly safe, or perhaps even desirable, but Nierderie's suggestion is that it belongs to about 2000 n.c. seems a reasonable one. Of course the Aegean area had been using metal long before this, but there is no reason why even at the height of M. M. this district could not still have been in the stone age. While the origin is still obscure the affiliation is close with Transylvania and Galicia, where the sites an Bileze Zlote is and Horodnica for farmish many beautiful examples of painted pottery in the Kiev style. These are described by Hoernes as

⁼ Hid. p. 140, Fig. 31

or fluid pp. 140, 141.

²² Barrows, Distorrers in Crote, ch. st.

^{**} Houses, N. R.O. pp. 126-128 (m Rurrows, p. 194).

²² Ct. Res. 1908, p. 238; Prehistoric Thes.

only, p. 234 and Appendix I, pp. 257, 258.

Shie, Aur. 1. p. 480, quoted in Minus. p. 142.

Houses Urge Nichts der hildenden Kim i in Berger, p. 291. Fig. 25 p. 31h.

^{# 2002.} p. 213.

'Ukrainian' and include the characteristic opera-glass, the variations of spiral, and use the same rich colours. Another Galician site, Koszylowce, has grey incised pottery and painted ware. Its neolithic period is said to furnish many resemblances to the Thessalian and to afford a close parallel to Butnur.

In the Carpathian district or Transylvania, where both the incised and painted styles occur. Tordes and Kronstadt are two of the most fruitful sites. At Tordes the pottery designs are rectifinear and spiral, red or violet-red on a vollow-ground. In terracotta there are small short-legged animals. and female idals with arms horizontally outstretched or placed on the body.22 Kronstadt " furnishes many examples of pottery in which the straight and curved bands are drawn with great neatness and exactness. Although white on dark occurs, the converse technique is much more general. As at Tordes there are many figures of animals and female glots, but the Kronstadt variety is very steatopygous and fat in the legs. The breasts are small, the navel and knee caps modelled in relief and the head often pierced through with holes. In Roumania Cucutem (near Jassy) affords some good examples of polychrome styles." The earlier neolithic group includes a large number of the fruit-stand type whose shape and certain features of whose decoration recall the wares of Thessaly, II., but are by no means identical and may easily be distinguished, since those from Cucutoni are dall and dusty while those from Thessaly are polished. The later vases which belong to the Chalcolithic or early Bronze Age recall those from Petreny in the use of spirals, and in the placing of the decoration on the upper part of the puts which slope rapidly to a small base.

The berracotta figures from Cuentoni are very striking; the upper part of the body seen in profile is flat and slabliks, the head insignificant, and the steatopygy very marked; seen from the front or back they are broad shouldered and broad across the hips. They are covered with incised decorations, sorral and meander motives, curving lines, semi-circles and a peculiar arrangement giving the effect of drapary drawn very tight about the lower part of the

body.

These sites then furnish a group which, though not homogeneous, is closely affiliated. When we cross the Danube into Bulgaria we find connexions with Serbia and Bosma and also with the group just described. There are incised wares with a combination of spiral and geometric designs, parallel lines in ribbon style, impressed chaquer patterns and, less commonly, painted ware akin to the Moldavian and some use of graphite technique; if there are flat home idols with incised decoration is like the clay Ukrainian

²¹ Hadazzak, Les Monnmosts archidologiques de la Galicio (review and summary in J. H.S. 1915, p. 133).

⁼ Horrney, op. vd. p. 303.

^{= 1}bid. p. 307, Figs. 4 &

^{*} Wate and Thompson, Perhistoric There only, p 257,

Hoerman, Urgennichte, p. 200, Vica.)

Seine and Dograml, E.C.H. 1906, pp. 339-432, with 72 illustrations.

²⁸ Wase and Thompson, Probisters: Thesady, p. 258.

⁼ R. (3.21, 1906, p. 415, Fig. 57.

idols,26 figurines reminiscent of the Cucuteni 40 and Russian 41 styles as well as seated figures covered with incised designs whose relationships cannot yet be determined.12 One rather interesting fragment of a terracotta shows the upper part of a bird, presumably an owl, whose eyes are ellipses with a straight line through the centre, the mouth a cross, the nose beaked, the plumage meised. It is suggested that it may be meant for a human being clad in an animal's skin, as we learn from Xenophon and Herodotus that the Thracians dressed in this fashion.

Bulgaria then seems to have some relation to the Moldavian district north of the Damibe and some with Serbia. Mossrs. Wace and Thompson point out that in the Sofia museum are many weapons of the usual central European shapes. The bored celts which may imitate metal axes are characteristic of Troy as well and indicate a connexion between Troy and the central Danubevalley, but as Troy affords no examples of Moldavian mainted pottery the trade route probably branched off and followed the route taken later by the Roman road from Nish to the Hellespont. In Bulgaria the principal finds have been on the Danube at Rasgrad and near Silistria; in the Shumla district, at Jamboli and Tell Ratcheff near Jamboli; and at various sites near Philippopolis.4 In the Shumla district the painted Moldavian potters is more frequent than near Philippopolis where incised wares are particularly plentiful. The wares of Ratcheff and Metchkur are, however, said by Messrs Seure and Degrand to be almost identical, although the examples at the latter are a little more carefully done. These authors particularly note the resemblances to the Bosnian and Serbian fabrics.

The so-called Tomb of Protesilaus, two and and a half miles north of Sedd ul Bahr across the Hellespont from Troy, and the adjacent gardens were strewn with thick instrous pattery characteristic of Troy I.; in the tomb were fabrics of Troy L and H. styles, stone axes, hammers, querus and balls, a amall bronze knife and baked bricks like those from the second and third Trojan cities.60 This was the only tumulus in which Trojan pottery was found by Schliemann, but later discoveries in Thraco and Bulgaria have furnished more examples. These help to confirm the statements of Herodotas and Strabo about the connexions between the Phrygians and Trojans and the migrations from southern Europe to Asia. Phrygians and Mysians had both taken the Bosporus route and had left at home in their native Thrace certain of their kinsmen known later as Bryges and Mossians.47 Quite probably the expansion of these tribes into North-western Asia Minor was part of the same movement which drove their kinsmen the Achaeans southward into the Greek

Horrans, op. cit. p. 317, Figs. 1-3.

Horrans, op. cit. p. 317, Figs. 1 (from Vidbol in the

Vidin district).

¹⁰ B.C.H. 1906, p. 300, Fig. 25 ; p. 301. Fig. 25 | p. 414, Fig. 36.

[&]quot; Hornes, p. 316 (from max Philippopolis); Wace and Thompson, Pechicarie Thompson, C. Wass and Thompson, C. Ben p. 235, Fig. 4.

¹⁰ H.C.H. 1906, p. 374, Fig. b, and note 2 ** Jérôma, Réc Arch 1901, pp. 229-349 (Jambeli); Sours and Degrand, B.O.H. 1906. pp. 369-433 (Tell Ratches, Tell Metchkar and other sites mear Philippopulis).

[&]quot; E.C.M. 1906, p. 316.

^{*} Schliemann, Troja, pp. 254-252

[&]quot; Harodotna, vii 73.

poninsula. The centre of distribution evidently lay somewhere in the district towards the Danube and the lines forked off from each other so that the Achaeaus went southward to the west of the Phrygians. Strabo says also that the Phrygians passed from Thrace, killed the king of Troy and settled here, that there was much competition for the rich lands and that this had all happened before the Trojan War. Hower's Phrygian allies come chiefly from Asia Minor. The Phrygians seem to have had connexions to the south-westward also, as the Bryges belonged to Macedonia and according to Strabo to the Paconians were a colony of the Phrygians.

Bulgaria forms an easy transition to Group 4, the Bosnian-Serbian-Trojan line (marked with a triangle). Here the pottery found with neolithic objects is not painted but incised or stamped, though the designs include spiral and curvilinear as well as rectalinear motives. Figurines of human beings are very plentiful; they are mostly female and commonly steatopygous. Bihao and Butmur represent the western extremities of this line. which extends through Serbia, particularly along the Danube as far as Radinjevac, including the noteworthy sites of Klicevac and Zuto Bulo, and in the Morava valley as far as Nish. In this district Vinca and Jablanica are especially important stations. At Butmir the spiral, curved, straight or rectilinear designs are incised, dotted or stamped on the soft clay of the handmade pottery. Among the figures the simplest form is a slab-idol with outstretched stamps for arms; others end in pedestalled bases instead or arms, legs or feet. The necks are long, the faces inclined backward and have sharp noses, no chins, sloping foreheads, eyes with heavily ridged brows which often form a T with the nose. Incised patterns are frequent on the torsos, which are generally unde, although sometimes they seem to have a garment fitting tightly about the hips or are adorned with necklace and garlands in dots. At the Bosnian pile village of Ripae near Bihae and at Gresine on Lake Bourget have been found hermaphroditic terracottas, and az Ripać also pyramidal aniconie płoba "

In Serbia along the Morava valley there are remains of dwellings more or less rectangular in plan and constructed of wattle and clay. The incised designs on the pottery are both rectilinear and spirals, the closest affinities are with those of Butmir and the Pannoman group of Hoernes. Another favourite technique was decoration by impression or stamping and a third was 'highly polished black designs applied to the surface of the vase on the greyish white slip' (evidently the graphite style). The incised decorations of the late periods are often filled in with white. It is, Klücevac, Although the well-known figurine from Klücevac is familiar through illustrations, the significance of the site as a whole cannot be too frequently emphasized.

[&]quot; Loui, Homer and Mistory, pp. 72, 73.

[&]quot; Strabo, ali. & 3, 4,

[&]quot; I'md Wr. 3%

W Vassita, R.S.A. xiv. pp. 310 ff.

M Hoernes, op. co. pp. 251, 283, 387, 289

¹⁵ Ibid. p. 53, Nov. 1-8; p. 201.

⁶⁴ B.S.A. ziv p. 320.

²⁰ H.S.A siv pp. 330-338 (pottery).

Vassita, Rev. Arch. 1902 (3 ser. tome al.), pp. 172-190.

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The red or black pottery incised and filled with white puts this site into connexion with places from Bosnia to Troy. Dr. Vassits is inclined to value it for the combination of what he identifies as geometric and Mycenaean elements although the spinds which he derives from Mycenae are character-

istic of the very group marked with a triangle on the map.

The neighbouring site of Zuto Brdo is rich in figures with moised deporations and hand-made vases, dotted, stamped or incised in the usual style. Winle at Klicevae some metal occurs even in the lower strata, a true neolithic station is Jablanica " which Dr. Vassits says stands in the same relation to Khicevay as pre-Mycensean to Mycensean. Even he sees no southern influence here and the attinities with the other sites in this group are remarkable, especially with Kubin in Hungary, Bosnia, Troy and Bos-Ojuk. This is clearly one of the most important sites which has yet come to light. Professor Myres 56 regards it as a site of the utmost eignificance enabling one to fill in a missing link between neolithic Butmir and Troy since hitherto there had been only the Thracian tumuli which were too near Troy to be really intermediate. M. Reinach of calls it another link in the chain which connects Bosma to the Troad and Phrygia, Hungary and Kiev. This he regards as a unified civilization with local differences, but thinks that an attempt at an ethnic name like Thraco-Illyrian or Phrygo-Seythian would be premature. It is with some diffidence that I venture to disagree with this distinguished authority, but it seems to me that the difference in the two groups is clearly marked, although there doubtless was contact between them.

The classification of about 1,000 statuettes in the Belgrade Museum shows that they extend from the earliest nude figures with flat triangular faces to the decadent type with hird's head and monstrous nose. Incision is plentifully used to mark the features, necklaces and clothing on the later examples. Standing figures wear a garment like two loin-cloths, square in cut, hanging from the belt, sometimes drawn like a sheath about the hips as at Cocuteni, or with ends hanging in front fastened to the belt with buttons which are represented by little clay knobs. Horizontal bands around the leg may represent boots: A fragmentary bone statuette recalls those from

Bulgaria, Troy and Theasaly."

The attempt made by Dr. Vassits to prove direct connexion between the Aegean and the Serbian cultures must be regarded as a failure; the affinities of Serbia certainly seem to be elsewhere ""

We may tabulate Groups 3 and 4 as follows :-

L. North of the Danube : -

A. East of Corpathians :

 (a) Kiev.—Tchernigov.—Tripolje.—Polinea.—Kharson in the Dniepr valley.

(b) Podolia-Petreny-in Dniestr,

Vasnita, her. Arch. 1908 (4 say tome-al.), as 365-210.

Vanuta, Rev. Arch. 1992, p. 184; Archiver Ambropologie, vol. 27 (1992), pp. 518-582.
 Man. 1995, No. 41, pp. 78, 79.

Keimah, L'Anthropologie, 1901, pp. 527 d
 B.S.A. stv., pp. 323–528.
 Wass and Theorem C. Ess. 1900, pp.

Wass and Thompson, (3, Ker. 1986, pp. 259-212.

- 2. Galinia (headwater of Dniestr), Cucateni, Prath. Bukowina
- B. West of Carpathians:
 - 1. Transylvania : Tordos, Kronstadt.
 - 2. Pannonian : Lengvel. Atterses. Mondages Wrigste.
- II In the Damibe Valley or South of Danube:
 - I. Bosnian : Butuur. Bihać.
 - 2 Serbian : Danube. Morava.
 - 3. Bulgarian : Rasgrad, Silistria-on Damabe, Shumin:
 - Sultan Selo-Upper Maritza, W. branch, Jamboli-Upper Maritza, E branch (Pundja),

Philippopolis.

To sum up: to the north of the Danube the culture along the valleys of its tributaries like the Pruth and the Theiss is closely akin to that in the neighbouring river basins of the Dniepr and the Dniestr; on its southern side as well as along its tributances the Save, the Drin and the Morava, the connexion is with the Bosnian group. Bulgaria seems to have been the meeting place of both civilizations.

But in order to discuss the connexions with Troy, where the remains of the second city afford many close resemblances to this fourth group (triangles on the map), and where the Balkan-Dambian connexion becomes again evident in the seventh city of the Early Iron Age, we must consider the possible routes from the southern bank of the Danube to the Aegean firem:

There are three of these, access to all of which is via the Morava. Following up this river to Nish one may go through the mountains and (1) down the Maritan (2) down the Strymon or (3) across the watershed and down the Axios or Vardar. The first of these routes was taken by the Roman road and also by the Orient Express, and it leads into the parts of Bulgaria when remains have been discovered on both the upper branches of the Maritza as well as nearer to its mouth in the Aegean, whence there is an easy connexion with Troy. The Strymon route seems not to have been as important as the others in uncient or modern times and the imsettled conditions in the country have made excavations impossible. It is not so accessible from the headwaters of the Morava but can be reached with little difficulty and is one of the natural outlets from near Sofia to the Aggean in spite of the elevation of the land through which it flows for part of its course.

The map of present and projected railways, shows that a road has been proposed through this valley.

We shall have to regard it as a route of secondary importance along which there is no good road even now, putting the Orient Express route and the Morava-Vardar route as the two really significant passageways. The Romans atom not to have utilised the Axios valley, which was natural enough as they were not so much concerned with north and south as with east and west. Their point of departure was Dyrrachium, thence north-east to Naissus and south-east to Byzantium, roughly two sides of a triangle the base of which was formed by the Via Egnatia, which went as nearly due east and west as the character of the country allowed. As far as Pélla or Thessalonica it must have been an exceedingly difficult and uncomfortable journey, but cast of the mouth of the Axios it followed the coast in the narrow strip lying south of Rhodope. For various reasons it seems that such a caravan route must have existed from a very remote period, or at any rate from the days of Homer, as we shall see.

The great Morava-Vardar route has been from time immemorial the corridor between the Danube and the Aegean, whether the tide of travel set from north to south, as in the case of the carliest invaders, or from south to north, as in the case of our allied armies. It would be absurd to think that the civilization which extended up the Morava stopped short at Nish and did not go down the other side of the mountains via the Axios. 'Macedonia, to give it its old name, is sure to be a righ field for excavators, for the fravels of Messra Wace and Thompson " have brought to their notice a fairly large number of tumuli and settlements in the Salonica district alone. Their researches in Thessalv had fixed the Vale of Tempe as the morthern boundary of the Thessalian culture, although sporadic examples of the wares had been found in Thraco. That northern boundary has now been pushed as far as the Haliacmon valley where sherds of Thessalian I, and II, were discovered at Serfije, while the investigations in the vicinity of Salonica make it probable that Macedonian culture partook of the character of its neighbours both to south (Thossaly) and to north (Danube-Balkan). In this neighbourhood they observed thirty-four funeral tunnili of a type unknown in south Greece but common in Thrace and extending also to Pergamon and to Kerteh, and twenty-six prehistoric settlements furnish painted pattery which resembles the Thessalian II., HL and IV, as well as a thin spreading of L. M. III. of a type identified as mainland (not Cretan). There is also incised pottery of a sample geometric type, but according to Mr. Waca there was not enough of it to tell its relations to Thessaly, Thrace or Bosma. " These excavations are as yet unpublished and one must not draw premature

Newbigm, Geographical Aspects of Balkan Problems, Fig. 7, p. 103; Johnson, Topography and Strategy of the War, th. till.; Hogarth, The Neuver East, ch. xiii. p. 210, Fig. 44.

Wass and Thompson, Liverpool duants, ii., (1999), p. 189 ff.; Wass, h.S.A., xx, pp. 194, 199.

Waon, H.S. A. Ex. p. 129.

conclusions, but we can at least connect Macedonia with Thessaly, Thrace, Serbia and Bosma at

Before considering the companions between Troy and this area we may note that the Bosnian-Serbian lime does not stop at Troy. Yorkan on the upper valley of the Caicus in Mysia " and Bos-Ojuk near Phrygian Dorylaion on the Sangarms" have furnished pottery similar to the Trojan; although some weapons of bronze show that the former site belongs to the Chalcolithic Age.

Mr. Ormerod's recent discoveries have added several sites which show some connexion with Troy and the Balkana 20 From Thystira a seated female figurine with flat disc-like face and crossed bands on the broast recalls the lead figurine from Troy as well as one from Selendi (near Thyatira), and is even reminiscent of Bosnin," and three small vases with animals boards and beaked forms are said to come from this vicinity. Further researches in northern Lycia, south-western Pisidia and southern Phrygia have supplied important material.

Tehni-Kanar in mear the Tanrus is connected with both Troy and Cyprus by its pottery which includes burnished black, red-glazed and black-glazed incised warm which belong to the first and second cities at Hissarlik, and 'rist Cyprinte' painted wars of the early Iron Age. There is also some degenerate Mycenaean tradition and some ann-Aegean influence which may perhaps have come via Cappadocia from the geometric areas of Western Asia. Two flat little headless figures of marse white marble from this vicinity are difficult to assign to any particular group, but perhaps belong to the Island type."

On the basis of the pottery from Senirdje near Isbarta in north Pisidia) which is chiefly dark grey burnished ware like that from Cyprus and Histarlik in general style and shapes, decorated with broad, flat scorings, little lumps, or flatings, or rarely with incisions filled with white, the Hellespontine-North Phrygian area is extended further south-easiward. Similar pottery was found at Bonnarbashi Gibl 76 (near Apamea) together with five early bronze implements, two flat celts two Cypriote daggers and one unfinished object, presumably a celt.

Other connexions are suggested by two small stone stealopygous figures from Telmkurkend " as this type does not occur in Troy, or at Yortan (where the figures are flat; nor is it characteristic of the Aegean in spite of a few examples. It is, however, as we have seen, very common in south-west Europe, Thrace and Thessaly.

F See Professor E. A. Gardner in The Times Literary Supplement, March 29, 1918.

^{**} Burrows, op. ed. p. 185 (mate 12). ** Kourts, Ath. Mar. 1890, pp. 1-45; Pt. L-IV

Ormored and Woodward, U.S.A. avi. pp. 70-120; Ph. VIII., VIII.; Ormerod, R.S.A. xviii, pp. 80-94; Ph. V. VII.; B.S.A.

xix. pp. 18-60.

¹¹ H.S.A. xix, pp. 54-56, Fig. 3.

> Hill. is 50, Fig. 4, 0, 6, e.

B.S.A. xit, pp. 94-103.

²⁶ Ibid. p. 195 ; Pl. VII. Nov. 18 and 19.

B.S. I. sviii. pp. 80-91.

[&]quot; Ibid, pp. 01-94.

⁷ B.S.A. xix. pp. 48-52, Fig. 1.

A flat, slablike torse of burchere with crossed incised bands and punctured decoration from Kul Tape near Caesarea recalls the Tchai-Kenar figure published by Mr. Pest, and the flat marble figures from Fulga in the Istanoz plain, and may be a crude example of the violin-shaped type found in the cyclades and Hissariik and at Yortan.

To sum up, the line may be extended south-east on the evidence of the pottery and figurines while at the same time a counter-influence from Cyprus was making it-elf felt. We are hardly set in a position to tell which came first. Carbainly the Cypriote influence continued into the Iron Age-Dr. Leaf. when discussing the Lycians among the Trojan allies, by a great stress on their commerces, which he believes was carried on principally by sea [see Map. Fig. 2], but for other purposes the overland mute was doubtless.



Fo 2 -Thank Ropers Covernmen or Thor.

- (1) Paphlagmians and Halizmes -----

used. Elsewhere so he has some very instructive remarks about the difference between routes for commerce and for other purposes which should be borne in mind when one is tempted to a hasty conclusion as to one (and only one) way to reach a place. Naturally it all depends on what you want to transport.

Long ago Professor Myres pointed out the connexions between Cyprus and Hissarlik and suggested an overland route. Hissarlik combines

[&]quot; Ibid, pp. 59, 60, Fig. 6.

³ Lauf, Trey, pp. 308 ff.

[&]quot; Leaf, B.S.A. aviii, pp. 301-3131.

European and Asiatic, Danabian and Cypriote elements in pottery, implements bronze and copper 31. The recent discoveries have gone a good way towards confirming this view and give us milestones on the route.

Contemporary with the Balkan asolithic period was the second city at Troy with its face-urns, its jars with suspension holes its white-filled incised pottery, its wealth of metal—copper and bronze and the golden royal treasure—as well as the continued use of stone, which bears witness to foreign trade extending from Melos to China, its northern type of megaron and the evidences of great prosperity of the city during its long occupation.

An important point to be noted regarding strata $\Pi = V$, which succeeded the great second city after its destruction by fire is the possible indication of the first arrival of a fresh civilization before the end of Perrod V.

when painted pottery makes its first appearance."

The sixth city is of course contemporary with L. M. and was destroyed in the Trojan war. In the seventh stratum there are records of fusion of the successors of the older city with another wave of invaders. Early Greek geometric pottery is found with crude barbarous knob ware and with metal axes, harmers, chisels, needles and rings which are neither Trojan nor Greek, but typically Danubian. These may perhaps be attributed to the Treres, a Thracian tribe, who with the Cimmerians crossed the Rosporus in post-Homero times probably about the eighth century. A mould for a battle-axe of Danuboan type shows that these people were metal-workers and practised their art at Troy itself.

If we turn next to the testimony of Homer we shall see that the valleys of the Strymon and the Axios belonged to the Paconians who were numbered among the allies of the Trojans. The Map (Fig. 2) shows in graphic form the four lines which Dr. Leaf takes to 'represent the four trade routes which converged on Troy,' starting from the four groups of allies given in the

Trojan catalogue.30

The three of these which lie in Asia Minor need only passing mention; they are (1) the Paphlagonians and the Halizones from far-away Alybe who dwelt along the shore of the Black Sea, tapped the country lying to the south and shipped their goods via the Bosporus and the Hellespont.

(2) There were the Mysians and Phrygians, the near neighbours of the Trojans, who lived up in the back country and who had doubtless crossed

from Thrace at a remote period."

(3) There were the Maconians, Carians and Lycians, who probably were traders rather than fighters and who followed a line up the coast inside the islands by what was known as the inner lead."

(4) Another group of lines which led to Troy particularly concerns us.

Myres, J.A.I. New 1897 : Catalogue of Oppras Museum, pp. 17, 18.

[#] Lauf, Troy; ch. 111, 60-80.

^{44 /}Said. p. 84.

^{**} Leaf, Troy, pp. 102-112.

^{**} Ibid, p. 270.

⁼ Ibid, pp. 278-298.

^{**} Inof. pp. 297 304

[₩] Ibid. pp. 305-311

But Akamas and Peiroos led the Thracians, even all them who are bounded by swift-flowing Hebrus.

'And Euphemos was captain of the war-like Kikones.'

'Pyraichmes led the Paconians of the crooked bow from far-away Amydon, from the wide-flowing Axios Axios whose water is the fairest that flows upon the earth.' **

In a word, they are Thracians bounded by the Hellespont, Passonians from the Axios, and Kikones between them. No Thracian tribes are specified and no town named in the catalogue, but Peiroos, one of their leaders, comes from Ainos, the harbour at the mouth of the Hobrus and the obvious port for that valley, exactly the Maritza on which we found there were plentiful remains.

Next to them came the Kikones with no specific boundaries mentioned, but other evidence connects them with Mount Ismarus, which separated them from the Hebrus valley. It is not easy to say where was the ancient pert:

it was probably at Dede Agatch at

The Pacchians, as Professor Macurdy of has shown, originally occupied for more extensive territory than they did later when the Macadonians drave than back to the upper Axios. They doubtless extended from the Nestos to the Axios, including on the way the Strymon and the Pangaeus range. That they were people of great wealth and importance is clearly manifest for they had the gold and silver mines of Pangaeus and eich fertile country for corn-growing. Probably a large part of what was later Macadonia was formerly inhabited by the Paconians, whether they belonged to the Thracian or Illyrian stock. These I think, anyway, were branches of the same people from the Danube district. The Thracians are specially mentioned for their metal work, goblets, and great swords, and also for their white horses, which were famous from the time of Rhesus throughout classical antiquity.

If we include in Paconian territory the mouths of the Axios and Strymon, we should undoubtedly connect them by a road via Lake Bolbe cross the top of Chalcidice. From Troy the sea route to Salonica would have been both long and dangerous, as Xerxes learned to his cost. From the mouth of the Strymon the route to Troy might be overland via the coast towns already mentioned, or across the sea by a straight south-east course, or by the stepping-stones of Thosos, Samothrace, Imbros and Lemnos. This cannexion seems more than likely in view of Professor Macurdy's researches,

which are based chiefly on names and religion.

The Dardanians gave their name to the Dardanelles and seem to have followed the route to Troy via Samothrace, the island which Pausanias says had originally been called Dardania. Dardania-Paconia was from early times an important commercial centre, right on the trade-route from the Danube, and much metal must have passed that way. In historic times the

[&]quot; Hord, H. 843-877.

[&]quot; Leaf, Trey, pp. 271, 272.

[&]quot; Hall p. 272.

Macurdy, in Transactions Am. Phil. Asso., alvi. 1915, pp. 119-128

¹⁰ fbill p 192.

coinage of that region was remarkably rich, as the researches of M. Svoronos have shown. 94

Hardly enough excavation has taken place to prove much about remains. but there must have been some contact as the references to Lemmos and Imbros in the Head show. Moreover, Lemnos kept up relations with both Trojans and Orecks; Dr. Leaf describes the Lemnian attitude to the Greeks as one of 'friendly neutrality'; it was a base of supplies and a market for shaves but also maintained commercial relations with the Trojans, acting as brokers for the ransom of important prisoners." Maybe its position was like that of the present Switzerland, which has had to keep on friendly terms with both sides in the war.

These converging lines indicate that Troy was a meeting place for people from both sides of the Aegean, and that the whole Hollespontine district must be regarded as a geographical unit. Our is tempted to conclude that at one time all roads led to Troy whother they were land routes or over the wet sea ways. Dr Leaf's vinw, now familiar to all scholars, is that Troy's wealth was due to her control of the Dardanelles and that with the fall of Troy and the opening of the Straits to the Greeks her glory departed. This would give a reasonable explanation of why she never rose again to any importance after the destruction of the Homeric city. The fact that the book Troy, a Study in Homeric Geography, was published in 1912 will show that this suggestion was based on independent evidence and in no wise influenced by recent events, which have demonstrated so clearly the influite importance of the centrol of the Dardanelles.

And it was not only the Dardanelles which contributed to Troy's dominant position. Salonica, that other strategic point of such value to the Allies at first during a long period of apparent inactivity and then as a hase for a great movement northward which reached to the Danube and beyond-Salonica seems also to have had close connexions with Troy.

We find that Troy was but slightly influenced by the Asgean civilization, and if we believe that the Greeks of history represent the fusion of northern or Achaean conquerors with their Mycennean subjects, and that the northern element was Greek or Helionio pay excellence, then we may not only accept Professor Bury's suggestion that the Trojans were Greeks,00 but also, paraphrasing Hibernes ipsis Hiberniores, we may say that they were more Greek than the Greeks themselves.

This would be of course but an absurd half truth, for to Troy as to Hellas many elements contributed. We do not know what was the original stock at Troy, but we know that the Danubian element came early and came often, that there was connexion with Cyprus and with the Anatolian districts, but that the Aegean influence was temporary and apparently rather superficial, and that after is had passed the old European kinsmen once more poured into the city of their ancestors.

IBA CARLETON THALLON.

or Ibid. p. 125.

¹⁴ Loat, Troy, p. 208.

[#] Bury, Quarterly Review, July, 1910.

TWO NOTES ON HELLENIC ASIA

L-THE ARABAIC PARCHMENT FROM AVBOMAN

In the Journal of Hellenie Studies xxxv 1 (1915) Mr. Ellis Minus has given an interesting account of three documents found at Avroman, west of Hamadan, and has deciphered two of them which are in Greek. The third is written in an Aramaic alphabet which has hitherto remained undeerphered. Mr. Minns was good enough to send me a photograph of it, but I postponed an examination of this until I could have an opportunity of seeing a second text, also in Aramaic letters, but attached to one of the Greek documents and therefore presumably relating to the same transaction. When a photograph of this second text arrived however, it was not distinct enough to be of any use; the ink of the original laid been too much rubbed to allow the forms of the litters to be fixed with certainty.

Owing to the war and my absence from Great Britain I had to put aside all further thought of the Avroman documents, and it is only since my return to this country that I have been able to look at the photographs of them again. The Aramaic is extremely cursive, various letters being written alike; hence the difficulty of its decipherment. But I can now give a translation of the text, which is not in a Pahlavi dialect, as has been suggested, but in an Aramaic dialect which, as might be expected from its geographical position, has been affected by Assyro-Babylonian influence. It is only the proper names which still offer difficulties, and I must leave the final determination of these to other scholars.

The text in Hebraw transcription :-

- שנת ///(13) זרחא ארבתת בנפנו ה(ס)סחר ברו סובין
 - י מן גזכו כרמא אתמר מם אבוכשרן הלך וצת ג חבנו אוול ברי גשנין ברי אחו כלא זבון כסף ////
 - ל מאמן זימחסני א ... ח... חמי אכלו חרמפבו ± שהדין (מודד) ברי א(ס)ין ... ברי (כ)שני ארשתת 5.
- 6. ברי א. נ. דד(ו/ת/נמי ברי מסדהרי סונך ברי מא(ס'ח(ו)
 - כרמא אתמרת ברמא זבנת אויל מן
 - 8. ה(פוסהר כלא נבון כסף ////

1. - Year 321 (f), month Arbateth, in Kophnu Hassahar (f) son of Sobin.

2. who is from Gazaku, has sold the vineyard, water, fruit and stocks, access and egress;

2. and Awil son of Cashnin son of his brother has bought it. He has bought

the whole for 5 pieces or salver.

- 4 Whoever [disputes] my possession, hitter (he) his food, accursed his virink !
- 5. Witnesses Modad (?) son of Asin (!), son of Kashnu (?), Arshateth
- 6. son of A Dad . . . mi non of Masdahari, Sunak son of Maskhii (7).
- 7. [I Has s ahar] have sold the vineyard. I Awil have bought the vineyard
- 8 Has(1)-sahr. The full purchase-money is 5 pieces of silver." Letters between brackets are doubtful.

Notes.

I The date is doubtful, though the ciphers read as I have given them. But I do not know of a parallel to the mode in which the hundreds are represented, and in and (L 3) samech has the same form as the cipher 20. But D. which would then be the reading, would yield no sense.

Warkha, month, for some indicates Assyrian influence.

Arbateth must be the Baktrian Kharbatat Neo-Persian Khordat. In the list of Cappadocian months the name is written 'Apaiorara : Epiphanus (De Huer: ii. 24) gives it as 'Aparar, and states that the 13th of it corresponded with the 6th of January.

I read Kophur, since in the Greek documents the name of the village

appears as Kophanis and Kopanis.

The name of the seller is unfortunately not quite certain. The second element in it, however, seems to be S-H-R, which would represent S-TH-R, as Meso represents Mithr(a) in the Greek documents. The first element would correspond with that in Haus-tanes, written Os-thanes by Phny (compare the Torage of Hdt. vii. 77). Perhaps the whole name is that written Oxathres by Diodorus, though the second element is rather that found in Megasidras, if this is the Old Persian Bagachitra (kitra, offspring, becomes chehr in later Persian, as Mithra becomes Mihr). I am uncertain whether or are should be read. In the majority of cases the final letter is written like , rather than , On the other hand, 772 instead of 72 would be explicable as an Assyrianism, modelled after the Assyrian mar-su (sa), "son (of)," literally "his son (of)." Sobin is the Σωβήνη of the Greek documents.

2. G-Z-K-U is evidently the Ganzake of the Greek documents.

is the Ethpael of the verb, which appears in Hebrew as and the Hiphil of which means to sell, as in Mic. ii. 4. I am uncertain whether the word is to be regarded as a 3rd pers s of the perfect or as a 1st pers. a of the imperfect, as your in 1. 4 might imply.

סיא sthe Assyrian mami We should have expected אים פר אים

The Aramaic 28 in the sense of fruit is found in Dan. iv. 9.

The Greek documents show that contact the Syriac kashar, must signify vine-stocks in this passage. The Greek, as munisted by Mr. Minns, is water and vine-stocks, both those in bearing and those not, and ingreas and egress'

3. In is the usual Aramaic verb for 'buying' a piece of property. In Palmyrene part is 'he bought.'

Awil is the Assyrian Awilu, the man.

4. pont is again an Assyrianism.

prim is from pri, to passess'; op. Dan vii 18. The word which follows is partly obliterated.

ים מבו ומבו ומבו ומבו מבו

5. The reading of the first name is wholly uncertain. The first letter may be m, s, or h; the second b, g, or n; and the third and fourth d, r, or n. The second letter of Asin (1) may be kh. The next name is obliterated. The first letter of Kashmu may be r or possibly h; the last letter is perhaps s.

With Arshnteth compare 'Αρθασθάτης and 'Ασθάτης in the Greek

documents

6. I cannot suggest any reading for the first name in this line, and the next name is partly obliterated.

With the spolling of Masda-harr cp, the Greek 'Apa μάσδης. Has s.y.n.κ anything to do with the Greek Σιάκη, Σιανάκος !

Since the above was sent to the printer Dr. Cowley has published an article on the Avronan text in the Journal of the Royal Asiatic Society (April, 1919). We agree in the reading and rendering of the key-worls, but he is undoubtedly right in making the name of the month Arotat instead of Arbateth. He makes Tirik the name of the first witness.

H.—Note on Mr. Arkwright's Article upon "Lycian and Phrygian Names."

In his article on Lycian and Phrygian Names' (Journal of Hellenic Studies, xxxviii, p. 70) Mr. Arkwright questions the value h which I assigned to the Karian letter † or + m my decipherment of the Karian alphabet and inscriptions (Trans. of Soc. of Biblical Archaeology, ix. 1; 1887). A reference to my Paper will show that I did so with considerable hesitation, but the value has since been accepted without question by all the scholars who have interested themselves in the Karian inscriptions, and has now been given as a matter of course to the same character in the newly-discovered Lydian texts.

These Lydian texts, however, have raised some doubts in my mind. It does not appear to have been noticed that the word for 'king' in them, which is to be read h-a-[-m-l (Mr. Arkwright being obviously right in the value he suggests for the third and fifth letters), is the raking of Hipponax (0), which we are told was the Lydian word for 'king'. It seems to be

allied to the Phrygian $\beta a\lambda \hat{\eta} r$ and Trojan $w\hat{\epsilon}ppa\mu\sigma_0$ s or $w\hat{\rho}ia\mu\sigma_0$, which had the same signification. It looks, therefore, as if + in Lydian had a value which to the ears of the Greeks resembled p, a sound which otherwise does not seem to be represented in the Lydian alphabet. On the other hand, if the letter in question does not correspond with h, the aspirate which we know from proper names to have existed in the Lydian language would not have a representative.

A. H. SAYCE.

THE VENUS DE MILO AND THE APOLLO OF CYRENE

At the recent temporary rearrangement of the sculpture galleries of the British Museum a cast of the Aphrodite was accidentally placed by the side of the large Apollo discovered at Cyrene by the British excavating party. This Apollo has it appears to me, suffered from an inadequate appreciation of later Greek art, especially of the Eastern schools, and it has been a victim to our poverty in descriptive terms. By this poverty Greek sculptures which are later than what has been supposed a 'good period' are all swept up together as 'Roman' Roman Art at the simplest is quite the most difficult to determine because so little of it was truly and characteristically Roman. The term is used as of local significance, then in an imperial sense and again of an undefined span of time.

The following rough grouping of late classical sculptures may be suggested tentatively, but the whole question of an extended and precise nomenclature needs to be considered and would be a fit subject for a conference of archaeologists.

- (1) Original works wrought in Greece and Hellenised lands, which necessarily continued older traditions and often showed admiration and study of the great masters (Later Greek and Hellenistic).
- (2) Semi-original work which intentionally simulated the style of some former school (Archaising, Archaistic and New Attic).
- (3) Copies of antique sculpture more or less accurate and competent (Antique Copies).
- (4) Original Sculpture wrought in Rome and lands artistically dependent on Rome answering to a Latin tradition (Roman)
- (5) Work supplying a Roman demand, by Greek artists following Greek traditions (Gracco-Roman).

Our Apollo of Cyrone belongs to Chass I. It was no reproduction for a collector but it was a traditional work wrought for a definite place and for a ritual purpose. It is the cult statue of an important temple in a rich and artistic city: it is of semi-colossal senie, choice material and most competent workmanship; it must be one of the most perfect temple statues known and is a finely preserved example of the sculptor's art: the polished radiance of the face reflects a light on murble sculptures generally, and yet this fine statue is hardly mentioned in the books and

is badly crowded by inferior works in the Museum. It should be isolated, set in a vista and made known as an authoritic cult statue which once occurried the chief place in the temple which sheltered it.

It belongs to a well-known group but it is a variant of an unexhausted type; an original Hellonistic work of 'sacred' character, it may have had more than a local reputation. The type was still funcous at the beginning of our era and such an Apollo was represented in a painting of the twelve gods at Pompeii illustrated by Gell. The juxtaposition of the cast of the Aphrodite and the marble Apollo brought out quite remarkable resemblances in their general structure and treatment, so much so that I could readily believe that both might have been the work of one master. Several points of evidence which I must pass over might be brought forward

to show that this Apollo is a work of the second century B.C.

Three suggestions may be guthered from the Apollo to apply to the restoration of the Aphrodits. Her left foot was certainly raised a few inches shove the ground and rested on an object or step 1; her right land did not necessarily support slipping drapery; indeed the raised left foot throwing the thigh out at an angle, the 'straddling' pose and inward swing of the left leg would just serve to support drapery thus wrapped around the hips; By her left side was some accessory taking the place of the tree-stump and sorpent of Apollo. In Furtwangler's excellent account of the Aphrodite he shows that a subsidiary figure " was found with the statue but he summed un against its authenticity and, in his restoration, substituted a plain pillar. Now in the Fitzwilliam Museum, Cambridge, I have just seen a fragment of a Venus (about half scale) which obviously repeated the characteristics of the Venns de Mile and must have been a very inferior copy of it. It is described as : Fragment of Aphrodite found in the Trond-Clark No. 2' (Note the place of finding). The upper part of the figure is missing but fortunately it was broken across the nude body at some distance above the drapery, which is complete. The left foot is whole and was raised above the ground level. By the left side of the goddess, a statuette on a pedestal was represented. This companion figure was draped to below the knees but the manner of draping suggests a male figure (a Hermes ?). Its proportions show that when complete it must have risen above the waist of the greater figure of the goddess to a height which would have been suitable to support her left arm when partially extended I may mention also that at the Victoria and Albert Museum there is or was a little terra cotta figurine of Aphrodite who leaned against Eros standing at her left side. Again the Unidian had a support for her left arm.3

We may now confidently conclude that the Venus de Milo leaned her left arm on a pillar or a subsidiary figure representing a statuette; for

Compare the Venus of Capus which is practically a copy of the Venus de Mila: alms the Victory of the Trajan salumns.

[&]quot;Two herms were illsoovered but a socket

on the plinth of the statue shows that only one figure or object was successful with it.

¹ See Releash's Repartaire to: other figures.

myself I think the evidence is in favour of the latter. As Furtwaugher points out the carving of the left side of the statue suggests that an object prevented its being fully seen and a pillar would hardly have been sufficient reason for any modification of workmanship. The same attitude, leaning



Piu. I.—Szerch rum a Drawino (o. s. Paintino ar Poncen.

for support to the left with the left foot raised on a step, is found on a little ivery relief of Hygieia (c. 380 a.p.) in the Liverpool Museum (Venturi, Storia vol. i. p. 391.). Here however the support is a triped with a coiling smake. This support for the arm rises high and the hand droops. The source of this design may have been an Apollo of the Cyrene type, but there is in it, I feel, some memory of the Aphrodite. As to the action of the lost right hand of the Aphrodite, the Cambridge fragment shows that the drapery was not held. As this little work was all in one piece traces of the hand could not be lost, as might possibly be the case with the great original, if the lower arm of that had been in a separate piece

There is in the Print Room of the Victoria and Albert Museum a drawing by Mr. S. Vacher of a faded painting at Pompeii of a Venus which to some degree seems to echo the statue although it is more nude (Fig. 1). This painted Venus held a mirror in her left hand and with her right adjusted a wreath; and I am drawn to think that the Venus do Milo followed the toilet motive of the Chidian. It has hardly been brought out that the latter, occupying an open

kicsk in an enclosed garden or 'grove,' would almost certainly have stood alose to a fountain basia in which it was reflected—a Bath of Venus. Polished, coloured, gilt ' and set around with flowering shrubs it was far more than wint we call a status, it was an apparition. The Aphrodite of the 'Gardens' at Athens again must have represented the goddess in a sylvan sanctuary.

W. R. LETHARY.

^{*} The hair of this Venne do Medidi was gift

THE PROGRESS OF GREEK EPIGRAPHY, 1915-1918.

In my last epigraphical summary (J.H.S. xxxv, 260 ff.) I dealt with the period from July 1914 to June 1915 inclusive. The present article continues the record down to the close of 1918. The conditions of the three and a half years which it thus attempts to cover will, I hope, prove a sufficient excussi for any omissions which may exist—as I fear they must—in the following pages. That the output of these years should have been so much smaller than that of normal times will cause no surprise; what is surprising is rather the fact that so many books and articles should have appeared, including not a few of great and permanent value, during a world-crisis which has demanded the thought and activities of many, and the lives of some, who would otherwise have been engaged in epigraphical work-a fact which affords striking testimony to the vitality of the studies with which this article deals. Actual excavation has naturally been brought almost completely to a standstill and the number of inscriptions published for the first time is consequently small, but noteworthy progress has been made in the restoration and interpretation of numerous previously known, and in some cases very familiar, documents

General.—The war has inevitably retarded the progress of the great collections of inscriptions, especially of those volumes which depend upon international co-operation. Nevertheless, the fascicule of the Inscriptiones Grascae devoted to Eubosa appeared in 1915, and two further instalments of the second edition of I.G. ii. and iii. have also been published; these will be noted below in their proper places. Collitz and Hoffmann's invaluable Sammlung der griechischen Dialektinschriften has at length been completed, thirty-two years after the appearance of the first part; the concluding section, edited by E. Fraenkel and K. H. Meyer, contains addenda, grammar, and index to the dialect-inscriptions of Crete and to those of Sicily. A useful collection on a much smaller scale is G. Nicole's Corpus des o'cramistes grees, which contains a complete list of the extant signatures of the 131 potters and painters whose names have survived on their vases.

Two selections of epigraphical texts claim notice. An event of first-rate importance is the publication of a third edition of Dittenberger's Sylloge Inscriptionum Graecurum, which ever since its first appearance in 1883 has

TV Band, 4 Heit, 2 Abt. Göttingen (Vandenhoork u. Buprenkt) : 9 At. 89.

Paris (Leventa), 1917. Reprinted from Res. Arch. iv. (1916), 373 ff.

held unchallenged the first place among books of its kind and has deserve-lly ranked as a masterpiece of insight and gradition. The new edition, in the preparation of which F. Hiller von Guertringen has had the assistance of J. Kirchner, E. Ziebarth, and H. Pomtow, contains a portrait and memoir of the author, who died in 1906, and the two volumes already issued comprise the historical inscriptions arranged in chronological sequence; the third volume is to contain the sections dealing with res publicae, res sucras and vita privata, the fourth will be devoted to indices. The immense growth of the historical section (910 inscriptions, as compared with 424 in the second edition) is due in part to the discoveries of recent years, in part to the insertion in this category of texts which previously appeared in other sections of the book, in part to the admission of a somewhat disproportionate number of Dalphian documents: The modifications introduced, notably the titlesprofixed in thick type to the several inscriptions make it much easier to consult the work, which has already taken its place as the standard selection of Greek inscriptions. R. Halbing's Auswahl was griechischen Inschriften! is inaccessible to me, but from reviews by W. Bannier and W. Larfold 1 learn that it contains a short account of the letter-forms, language, dating and value of Greek inscriptions, together with thirty-seven duly classified texts accompanied by Garman translations and brief commentaries.

In 1916 the British Museum successfully completed the publication of its magnificent collection of Greek inscriptions of which the first volume appeared in 1874. The concluding section, edited by F. H. Marshall forms the second portion of Part IV and contains Supplementary and Miscellansous Inscriptions' and a re-issue of the celebrated inscription of Caius Vibins Salutaris (No. 481), together with indices and comparative tables to the whole collection. It comprises 232 texts most of them excellently illustrated by photographs or facsimiles, carefully revised and accompanied by an adoquate commentary. Some of the texts-og, the Rosetta Stone, the Sigeum Stele, and the two bronze lablets from Ocanthea--are among the best known of all Greek inscriptions but 48 of them are apparently unpublished previously, including a long but unhappily fragmentary decree of a Giarry at Teos (1032), a decree of Xanthus dated 257/6 n.c. (1042), and the latter part of a decree of Attalia, probably of the first century it.c (1044). The Trustees of the Museum are also to be congratulated on the issue of an excellent Guide to the Select Greek woul Latin Inscriptions exhibited in the Department of Greek and Roman Antiquities by A. H. Smith at the astonishingly low price of sixpence. It contains a short introduction on the early Greek alphabets and some account; usually accompanied by a facsimile or by a complete or partial transcription, of 101 texts (82 Greek, 18 Latin, and 1 bilingual) exhibited in the Hall of Inscriptions or elsewhere.

^{*} Lelpziu (ffirrel) Vol. 1, 1915 : 30 M. Vol. 11, 1917 : 25 M. Reviewed J. H.S. exerti. 127 I., Barl. phil. Work. cervi. 921 ff., 1938 ff., versil. 1921 ff.

^{*} Sector to Lesping Goscham), 1918; 1918;

^{*} Berl. jobil. Works xxxxx 3214.

Work, Stage, Phil 1915, 1062 C.

Antical Great Ina-systems in the British
Missenin, IV, seet, 2, 1916. Reviewed Office.
Rev. XXXI, 1414, (J. A. F. Merry)

A H Smith's valuable papers on reliefs recently acquired by the British Museum is only incidentally epigraphical, and the inscriptions on the reliefs discussed have appeared in Marshall's work already mentioned. The only other Museum publication to be noted is E. M. Prülik's catalogue of stamped amphora handles and tiles in the Hermitage Collection at Petrograd, known to me only through a review by F. Hiller von Gaertringen. A fourth series of A. Withelm's valuable News Beiträge zuer gerochusehen Inschriftenkunde calls only for passing mention here, as the discussions it contains will be referred to below under their appropriate geographical headings.

No general works on Greek epigraphy have appeared during the war, but A. Rehm's review ²¹ of the third edition of Larfeld's Grinchische Epigraphik is noteworthy as calling attention to a number of weaknesses in this standard work. C. M. Kanfmann's book ²² on Christian epigraphy is still imagessible to me, but the name of its author is a sufficient guarantee of its value.

Several important articles have appeared bearing directly or indirectly. upon the vexed question of the origin of the Grock alphabet. J. Sundwall devotes an interesting paper 12 to the Cretan linear script, giving complete catalogues of all the signs used in the two systems A and B, the latter of which he regards as a Chossian remodelling of the general A-type, due probably to dynastic influence. The author is convinced that the Cretan linear script was syllabic in character, and believes that the finds recently made at Tiryus are in this script probably of class A. He appends a list of 62 men's and 41 momen's names, and holds that there are unheations of their non-Greek character. A. H. Gardiner has published it a series of cloven texts from the Sinaitic pennisula in a writing which apparently stands midway between the Egyptian hieroglyphs and the Phoenician letters, and affords a valuable argument in favour of the Egyptian origin of the Semitic alphabet. K. Sethe, who in 1910, before learning of this new evidence. maintained in a lengthy acticle 13 the Egyptian derivation of the Phoenician writing, has wholeheartedly acciaimed to Gaydiner's discovery. 'We must' he says, be dealing here with an intermediate stage between the Egyptian script and the later Phoenician or Semitio alphabet. The missing link for the derivation of the Phoenican alphabet from the Egyptian script has here been found. This derivation itself, the inner necessity of which could hitherto be established only theoretically, is thus practically proved to be a Inst' (p. 449).

Assuming as proved the Phoenician parentage of the Greek alphabet E. Hermann has attempted " by a novel method to discover the branch

[·] J.H.S. xxxvi 65ff.

^{*} Bert phil Work praviil 1020 ft.

[&]quot; Shell Wien, charin fi.

Bert phil: Wook, KEEVE MEET

¹¹ Hundhack des alterralisches Epigraphik, Erollung I. B. (Hetdor): 18 M.

¹² July 1 xxx, 41 ft.

^{*} J. Eg. Arch. (6, 1 ft.

W Ustring, Sache, Geschaftlinks Priter, unjen, 1910, 88 ff.

⁵ Garring, Nache, Phil.-Incl. Rhine, 1917, 437 ff.

^{97 76} STREET

of the Greek race in which the Phoenician script was transformed into the Greek Uralphabet. In fourth-century Athens π and β were named well and $\beta\bar{\eta}\tau a$ respectively, and as these names are probably original we must look for a section of the Greeks which always made a distinction between the two vowel sounds represented by m (c) and η (a). This rules out the Dorians and establishes a prima facis case for the lonic-Atha Greeks, though it does not absolutely dismiss the claim of one of the various Achaean-speaking groups. Hermann's article is subjected to a trenchant criticism by A. Mentz, who points out the weakness alike of its assumptions and of its method and, while admitting the interest of the letter-names for the history of the alphabet, denies that these prove anything about 'the language of

the Greek Undphalet."

Several miscellaneous articles still call for notice. F. Hiller von . Gastringen gives an account in of the recent progress made in the nublication of the LG, and other great collections with indications of what may be awaited in the near fature. R. Heinze's essay to on the metrical epitaphs of fallen warriors draws mainly upon literary material though apigraphical examples also are cited; the same is true of J. Geffcken's studies in the Greek epigram and of the same scholar's selection of enigrams. A Mentz has shown " that Reinhold Luberau of Königsborg. the narrative of whose travels (1573-89), embellished by numerous copies of inscriptions, has recently been published.24 does not include in his collection any new material of value; not only is his work inexact and suldiscriminating, but there are proofs that he derived solely from literary sources some of the texts which he claims to have seen with his own eyes: K. Scherling examines the inscription MNHΣΘH, which occurs, alone or in conjunction with a personal name, on more gems of the Imperial period, a gold ring from Syria and a graffito from the temple at Batthee, and concludes that the word is a curious form of the 2nd person singular agrist conjunctive, passive in formation but middle in inflexion. The ancient abacus has been exhaustively treated by A. Nagl, who describes and discusses extant Egyptian, Greek and Roman examples; although no attempt is made to examine in detail the Greek numeral notation as such, there is much in this essay which is useful for the study of the acrophonic system, and a special chapter is devoted to the historical relation of the Greek alphabetic notation to the abacus. In a suggestive paper " on the terms elphyn, a mordal, da mordel, etc. B. Keil traces historically the meaning. and use of these words in inscriptions and in literature, and incidentally discusses a number of epigraphical texts, a list of which is included in the

^{**} Beet pail. Work reveil 1373 II

¹⁴ KTio, av. 184 ff.

[&]quot; New Jahrh Kt. Alt xxxv. Lift

m fb rexir, 88 fl.

Grischliche Kpigramme, Hestelberg (Wmter): 5 M. 60.

I drek Am sex 49 ff

Mittellanger our der Studthilliothel -

Merm . liil 88 ff.

²² Die Rechentariel der Alten. Sitch. Wicz, etxxvii. 6.

Asipouper Berickie, tiviti 4.

index appended to the essay. In an article ** which lies on the borderline between apigraphy and numismatics the same scholar examines the apigraphical indications of the currency and value of the victoriatus in Greece and Asia Minor; he explains the phrase τόκον τροπαίκιαισε in an inscription ** of Magnesia sub Sipylo as = 6% and restores the word τροπαϊκόν in a manumission record of Larissa (Lif. ix. 2–549) in place of the enigmatic -PITALKON. In reply to O. Montelins, who dates the foundation of Camao back to the eleventh century and the use of alphabetic writing in Etruria and Latium to the minth century, V Gardthausen has advanced arguments ** to prove that the Italic stocks learned their scripts from a Greek and not from a Phoenician source and that both the introduction of the alphabet and the foundation of Comme must have taken place about 750 n.c. K. K. Smith has collected ** the quotations from Greek literature (Homer, Euripides Lucian, Sosiades, etc.) which occur in recently discovered inscriptions.

Attica.—Remarkable progress has been made with the interpretation and historical utilization of Attic inscriptions, and the number of new discoveries, though naturally falling short of the normal level of pre-war years, is by no means inconsiderable. Of Inscriptiones Graccae II et III editio minor (usually denoted by LG, ii.) a further fascicule appeared in 1916 containing the decrees later than 229/8 n.c. and the leges sucree while another " has I understand," been subsequently issued, comprising chronological tables and indicas to the instalments already published. P. Graindor has contributed a notable series of articles based whally or partly upon the evidence of inscriptions concurring, in addition to numerous corrections of published texts, thirty-four documents previously unknown. One of these articles contains a discussion, primarily chronological, of the lists of avlopoi and the monumental staircase of the Acropolis, the pylons and the Beule Clate, a second in is devoted to the study, artistic and historical, of the ecometer of the Athens Museum; in a third " 37 inscriptions of the imperial period are published, either for the first time or with improved readings and restorations, including groups of texts relating to Herodes Attions and his family to Hadrian and to a number of Attic archors of the second and third centuries of our era; the fourth as includes sixteen new inscriptions, amongst which are a list of archons (No. 7), a base with the name of Claudia Athenais, daughter of Herodes Attious (12), and an eighteenth example of the execuations of Herodes (13). The remaining Attic Inscriptions now first published include the prescript of a decree of 320/19 a.c. moved by the orator Demades,38 a fragment of

[&]quot; Zeite. Num vaxil. 47 ff.

^{*} Koil-Promerstom, Bericks aber vine Rico in Lydies, No. 5.

[&]quot; New Johnb. Kl. Att axxvii: 309 ff.

Classical Weekly, 13th Nov. 1912, p. 11 ff., known to me only through Ass. Journ. Arch. vs. 227 f.

[&]quot; Pars i, fase, 2, Berlin (Remuer) : 49 M.

[&]quot; Para iv, fuso. L. Berlin (Reimer): 12 M.

³¹ Sites Berlin, 1919; 32.

¹⁸ B.C.H. asxylii. 272 ff.

¹⁶ Jb. axxix 241 ff.

^{29 16,} except, 251 ff.

^{*} Res. Jeck. vl. (1917), 1 tt.

^{** &#}x27;Apr. 4var. 1, 195 ft.

an Attic alliance of perhaps that concluded with Perdiceas' brother Philip in 433/2 u.c., two further boundary-inscriptions of the Ceramicus " belonging to the fourth century a.e., a decree of the diagoras of Bendis at Salamis 12 dated according to its editor, following von Schooffers list of the Athenian archons) in 276/5 and rendering possible a more satisfactory restoration of a very similar decree of a somewhat later date, two fresh fragments " of a document (I.G. ii. 959) containing lists of naval crews and showing the precise composition of a trireme's crew (except as regards the numbers of values and Departures) and the distribution of citizens, metics, foreigners and slaves, and nine fragments (four of them previously published, but not brought into conjunction of a decree granting to Julia Domna, probably between 196 and 198 a.D., the honour of three yearly festivals for the aid she had given to an Athenian ambassy at Rome." To these must . be saided a dedication to Apollo Patroos," a number of epitaphs ranging from the sixth century a.c. to the Christian period and twelve votive inscriptions on bronze objects now in the Aeropolis Museum.88 Of the epigraphical results of the excavation of Pericles' Odmin only one is of interest, a bone theatre-ticket of the Imperial period bearing the legend XIII AICXVAOY IF, doubtless with reference to the revival of some work of the great dramatics. In his Attische Urkunden II. A. Wilhelm publishes new fragments of (a) a document prescribing the oath of the Affic disagrae appointed in 164/3 n.c. to settle disputes between Ambracia and Acarnamia, (b) a treaty of 111/0 n.c. between Lyttus and Olus in Crete, and (c) the decree of the Dionysiac τεχνίται in honour of Aribazas of Perraeus; he also restores a fragmentary decree for a Theban fluteplayer and examines the restrictions placed upon the everyore granted by a mumber of Attic decrees, some of which he restores or corrects. The study of Attic inscriptions, especially those of the classical period, owes much to the indefatigable labour of W. Bannier, who has devoted special articles to the two famous documents (I.G. i Suppl 27b and in 140) regulating the Elensinian awapying to the building-record of the Propylaen to the accounts of fifth-century buildings and statues a and to certain Earthcentury teaditiones.44 In a series of seven articles ander the title 'Zu attischen Inschriften the same scholar has thrown light upon a number of Attic texts (too numerous to be specified here in detail) including

" Klin, 20, 103 H.

⁴ Arch. Aug. xxx. 100 ff.

^{41 &#}x27;APX. 'Eq. 1915, 1 (E.

of I.G. it. 020 t of Jahrenbette, 1. 120 t.

⁴ dr.A. dec. xxx 124 ff

⁶ Jahresh xvi. 249 II

of Apx. Arkr. ii. 143.

¹⁶ Ib. 138 ff. ταυκρταια 80 ff. Αρχ. Έφ. 1916. iff. Itall. Met. Mas. Art. 31, 124, Mn=um Journal, viii. 10 ff.

¹⁸ Apx. Asar, 1. supelprass 33 f. The inscriptions in Apx. Ep 1916, 9ff. are

forgreies

^{*} APT 'Es 1915, 145 ff. Restruct, 1811, 81 ff.

¹⁰ Milel. Wien, clans, of

¹¹ Best phil. Week xxxv, 1230 ff.

^{** 16.} xzxviii 800 ff.

^{**} II **** 342 H.; **** 158 H. ™ III. Max 12x 584 E. L. 108 E.

^{**} Hert, phil. Work, xxxv. 1612 ft; xxxvi. 1667 ft; xxxvii, 91 ft; 344 ft; 1216 ft; 1342 ft; xxxviii, 440 ft.

the Tribute Quota-lists, the Parthenon-record, the accounts of the ποληται, the Phaselite decree and other equally well-known inscriptions, while Artic documents are also prominent among those which are discussed in the first of his two articles outitled Zu griechischen Inschriften F. von Hiller has suggested a new and attractive restoration of the 'Salaminian Decree,' which is accepted by F. Groh with one modification which you Hiller himself approves. No fewer than four articles deal with the Chalcidian Decree. W. Kolbe's view. that the given book un τελούσι 'Αθήναζε are Athenian μέτοικοι who have received ισοτέλεια, is sharply criticised by E von Stern, " who interprets the passage to mean that Chalcidian metics are to pay taxes to Chalcie except these paying taxes to Athens and foreigners to whom Athens has granted areaeia. C. F. Lehmann-Haupt, who reviews " the main problems raised by the dicrese, has modified in the light of Kolbe's suggestion his own previous view and maintains that the Févoi are Athenian metics who received is or exercise or dτέλεια its settlers on the confiscated hands of the Chalmidian (πποβόται,a solution which J. H. Lipsies " rejects in favour of that of Meyer and von Stern. Other well-known inscriptions which have received fresh attention from experts include the 'Sauman Decrees' of 405/3 B.C.,62 the Eleusinian tax decree, which is attributed by R. H. Tanner *4 to 443 n.c., the Tribute Quata-lists and the alliance between Athens and Leontini, the ipyaoriem-inscription at Petworth House, 40 the treaty concluded in 363/7 between Athens and Dionysius of Syracuse, of the Attic decree on weights and measures as and the statute of the Association of Iobacchi.48 The Atheman archon-lists are discussed by Dragoumis 76 and Roussel 11; U. Wilcken re-interprets 72 by the literary evidence two Attic documents discussed in Wilhelm's Urkunden des korinthischen Bundes der Hellenen; A. Wilhelm re-edits? un Attic decree now at Leyden. Of a number of minor contributions to Attie epigraphy no individual notice is possible here.24 The chronology of the Attic archors of the third century n.c. continues to be a subject of acute controversy. A. C. Johnson, who has devoted himself with marked success to such studies, has argued 75 in favour of the date 265/4 for the archonship of Lysitheides (attributed by von Schoeffer to ca. 249/8; and of 266/5 for that of Philocrates." In opposition to A. Mayer's claim " that Pap. Herval. 339 settles the date of Enthins

[&]quot; Ha. Mar. 122 389 ff.

⁴³ Herman, H. 303 ff.

> H. 478 t.

^{# 16, 479} f.

^{**} Ib. 630 ff.

^{* 16.} ha. \$20 ff.

^{# 18.} Wil 197 K

^{**} Rev. Phil. xl 100 ff.

⁴⁴ Claur Phil 33 65 ff.

¹⁰ King sy. 1886

^{*} R.S.A. xxi 155.ff

[&]quot; "AAX Eq. 1915, 125 ft.

^{**} Herme, M. 120 ff.

[&]quot; A Elve in Outergrown der chein Friede. With. Universität zu Bonn an ihre Angehörigen ine Febra 1910, 87 E.

^{2 &#}x27;Apx. Eq. 1015, 5 ft.

m Res Et. Graxxix 166 ft.

¹³ Silab, Mineches, 1917, 10, 25 H.

[&]quot; Siesb. Wien, clixix. 6, 21 ff.

[&]quot; J.H.S. xxxvi. 65 ff.; Munmorphe, xliv. 205; Work M. Philat 1916, 807 ff.; Arx. 'Eo. 1915, 137 Li Livy filet xIII. 219 ff.

Class Phil xiii 200th

¹⁸ B. x. 457 H.

[&]quot; Philologue, Ixxi. 226 ff.

in accord with Ferguson and Kirchner, W. Kolise has tried to show 78 that historically the date in question (287/6) is untenable and that in reality the papyrus confirms the later date (284/3) championed by Dittenberger. Koehler and himself: J. Kirchner answers these arguments and maintains the correctness of the earlier date.79 Of the remaining works dealing wholly or partly with epigraphical materials Ferguson's short article on the secretary-cycle 84 H. Oellacher's dissertation on the chronology of the Old Attic Comedy 31 A. C. Johnson's examination of the financial administration of Athens from 307 a.c. down to the early part of the second century, and C. Giannelli's essay on the Romans at Eleusis 88 are all of considerable interest and value. We may also note C. Robert's suggestions is that the sculptor Pollias, whose signature occurs on two bases found amid the debris of the Persian invasion, is the Pollis mentioned by Vitruvius and Pliny and is the father of the vase-painter Euthymides, and O. Lagercrantz's examination 45 of the phrase xuipe xul wies on Attic black-figured cups. Of W. Lademann's dissertation on some orthographical and grammatical questions raised by Attic inscriptions I cannot speak from personal knowledge as

Peloponness. P. Wolters' restoration so of a votive inscription on a number of vase fragments from the Aphaea Temple in AEGNA and W. Bannier's comments on a well-known Aeginetan text call only for passing notice. On the other hand, important new finds from Angoe have been published by W. Vollgraff. These include nine stones of the third century B.C. containing twelve decrees 88 in honour of foreigners, which give us our first complete examples of such decrees of this period, and thus enable us to rectify a number of texts hitherto imperfectly, or incorrectly, restored, as well as a decree passed before 251 n.c. in honour of Alexander of Sievon, and another, probably of about 249-244 s.c., honouring the Rhodian state, which had on a previous occasion lent the Argives 100 talents free of interest for the repair of their walls and the completion of their cavalry force. We owe to the editor a valuable discussion of the formulae of Argive decrees, of the Argive calendar, and of the subdivisions of the people and territory, together with a fresh examination of the famous arbitral ventics delivered by Argos in a dispute between Meles and Cimolus (I.G. xii. 3, 1259)," W. Rannier suggests of that the Aloxullos Olonos of an Argive dedication (I.G. is, 561) may be the same as Astylus of Croton, known to us from Plato and other authors. In his discussion of Wilhelm's Urkunden des

^{5 16.} lacty, 58 ff.

[&]quot; Ship, Berlin, 1918, 142 ff.

[&]quot;Alio, xiv, 385 ff

[&]quot; Piener Studies, xxxviil; #1 ff.

[&]quot; Am. Journ. Phil. xxxvi. 424 ff.

[&]quot; Atts Access, Torono, L. 319 ff., 360 ff.

[&]quot; Jahrh, xxx 241 %.

^{*} Branos, x10, 171 (f.

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içue et grammaticas, Kirchiala, 1915. Revisual by E. Schwyger, Best. phil; Work. XXXVI. 1370 (

[□] Rk. Mas. ixxi, 282 ff.

[&]quot; Beel, pail. Work xxxviii. 381 f.

[&]quot; Muemorym, xiiii, 365 ff.

⁴ Thexliv. 219 ff.

m 16 46 ff.

or Berl, phil. Work, xxxvit 11431.

korinthischen Bundes, U. Wilcken re-examines andocument from Epidaunus (LG iv. 924), which he thinks may relate to Alexander rather than to Philip of Macedon, and may be dated in 330 a.c.: the text probably refers to the συνθήκαι of Alexander and the Greeks rather than to the decision to declare war upon Persia. O. Weinroich, returning to the vexed question of the meaning of AKOAI in Epidaurian and other texts, decides in favour of the concrete ears." The French excavations at Orchomenus in ABCADIA have brought to light in addition to minor fragments, a statue-base of King Arous of Sparta, of a series of proxeny-decrees of engraved on bronze tablets: one of them honouring three Athenian envoys sent to the Peloponnese about 266 n.c., to prepare a coalition against Antigonus Gonatas, a valuable document, sellited with an ample historical and linguistic commentary, delimiting the frontier between Orchomenus and Methydrium in 269 a.c., when Methydrium passed over to 70 Meyaλοπολιτικόν, and the upper part 10 of the famous stelle (LG, v. 2, 343) recording the συνοικία (dating probably from 360-350 B.C.) of Eugemmans and Orchomenians, and indicating an attempt on the part of the latter to discover some compensation for the transference of Methydrium, Thisoa and Tenthis to Megalopolis. 100 No new documents have been found at Tegea but we owe to L Weber a full discussion in of a Togean epigram relating to the battle of Mantinea (v. 2.173). to A. H. Smith a fresh publication. 102 of the relief of Idrieus and Ada (v. 2.89), to E. Hermann an examination 100 of several Arcadian dialect forms, and to D. Comparetti a splendidly illustrated and most suggestive re-interpretation of the Xathias-inscriptions (v. 2 159), to A long acticle 165 by L. Weniger on the prophets at OLYMPIA begins with an examination of the Olympian official lists which survive for many years between 36 p.c. and 265 a.D., though the ramainder of the article is based mainly upon literary evidence. LACONIA is represented only by O. Fiebiger's discussion " of the metrical epitaph (r. I. 1188) of Epuphrys, who, he thinks fell fighting on the Roman fleet which assisted the Athenians to drive out the Herulian invaders in 207 A.D. On the western shore of the Gulf of MESSENIA, between Corone (Petalidi) and Asine (Coron), the site of the sanctuary of Apollo Corynthus has been excavated, disclosing the remains of five temples. The inscriptions 100 found here include a dedication to Apollo Corynthus, confirming the epithetwhich had been called in question, an archaic votive, some fragments of the late Roman period and five archaic inscriptions on bronze or earthonware. one of which consists of the legend Medarfine arede v Adavat [en] Anticos written retrograde on a bronze spear-head. In a masterly article of 120

Sitzh. Milnichen, 1917, 10, 37 II.

14 Hermes, L. 024.ff.

[&]quot; (M. Best, Phil. Woch, 2xxviii, 9821.

^{**} B.C.H. xxxviii, 447 ff.

^{17 16. 410}年.

^{# 14} casks fild.

¹⁰ ps. 08 ff.

¹⁴⁴ Cl. Judopeva, Formb. xxxv. 90 ft.; xxxvi. 237 ft.

¹⁰⁰ Harman III. 545 ff.

[#] J.H.S. EXXVI. 65 ff.

In Integers. Forach, uzzv. Illi H.

¹⁰⁴ Aminurio, II. 247 П. СІ. "Арх. делт. II. тарартира 74

¹⁰⁰ Arch Rel. will 53 IL

¹⁰⁰ Name Johns, Kt. Att. xxxvii. 265 ff.

in Son also Apx. Ashr. ii trapiprana To.

^{200 &}quot;Арх. делт. іі. 113 П.

pages, ²⁰⁰ A. Withelm discusses two documents of the late second century u.c. from the συνέδριον of Messene,—the decrees in honour of the Secretary of State Aristocles (I.G. v. 1.1432), and the accounts of the ἀντόβολος εἰσφορα (1433), or tax of eight obols per mina (420 obols) necessitated by Roman demands—as well as two financial texts (1434, 1532) of the same period. The commentary, which deals with every point of epigraphical, numismatic and historical interest suggested by the valuable texts under discussion, splendidly exemplifies the extraordinary acumen and learning of their editor. ¹¹⁰

Central and Northern Greece. P. Graindor has published in thirty epitaphs on thin rectangular tablets, all of which probably come from MEGARA, though the provenance of some is unrecorded or is attributed to Atties, and three fragments of a Megarian decree granting spotenia to a Megalopolitan, perhaps the commandant of the garrison of Nisaca in the service of Antigonus Gonatas. The yield of Bogotta is remarkably small. In a long article 112 on the Charopeum of Coronea, N. G. Pappadakis 'publishes thurseen manumissory dedications to Heracles-Charops, inscribed on two steine of about 200 s.c., a further manumission and a fragmentary dedication from the same sanctuary 111 and two manumissions of Thists 114 From Orchomenus A. Wilhelm publishes 118 two new texts of the second century i.c., the one a list, probably military, of 42 Orchemenians, the other containing two dedications of freedmen to Sampis and Isia as well as a follor reading of a proviously known text (LG, vii. 3198, 3199). The only other new discoveries are a herm from Thespiae 118 bearing an epigram of the third century B.c., and a leaden ticket of admission 117 to the Oropian Amphiaraium. Wilhelm has discussed it a decree (vii. 395) from the same sanctuary in honour of Minasalces of Sievon, in whom he sees the poet of that name, and a passage in a well-known document (vii. 235) of the same provenance. discussion to has contered round a metrical epitaph of Thespiae, while S. Lourin has examined in the status of the temants of the Thespian public pastures who appear in a well-known inscription.121 Priocis is represented by a single manuantssion-record from Hyampolis.22 From Eastern Locats, W. A. Oldfather has published in nineteen new texts, mostly short epitaphs, together with notes on ten Locrian inscriptions previously known. H. Goldman has given us five inscriptions 134 from the aeropolis of Halae, including a sixth century votive opigram, an early lifth century dedication of a statue to Athena, and an interesting list of officials (at 260-250 a.c.)

^{1#} Jahrah zvil. I II

¹¹² See also 'Apr. MAY. il wasderspen 73 ff

in Ben Arch. vi. [1917], 31 ff.

^{100 &#}x27;Arx. Ass. IL 217 ff.

^{03 .76. 268} ff.

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¹¹⁴ Silesh, Wien, Maries B, & ff.

¹⁰ Acch. Ann. xxx. 208. A Theopian manumission is republished 'Apx. next, in. 2001.

¹¹¹ Apx. Ep. 1916, 119 L

no Sitch. Wien, always to Aff.

¹⁰ Hort, jobil Wood, 222vil. 1443; 222vili. 167 (.; 970 f.

¹⁰⁰ Bee Br. Or unriff. 51 C.

¹⁴¹ Collin, R.C.H. ext. 352 ff.

^{180 &#}x27;Apx. Aver. 11, 201 ff.

is Am. John. Arch six. 320 H.

³³⁰ Ib. (384f. Ct. Claim Phil. vi. 211 ff.

which contains the first epigraphical evidence for Halae as a member of the Bocotian League. Bannier has commented the upon two famous archaicinscriptions found at Ocanthea (I.G. ix: 1, 333, 334), and now preserved in the British Museum, 18 and B. Keil has discussed 127 a difficult phrase in one of them, the colonial charter of Naupactus. The compact relating to the Locrian maidens discovered at Tolophon and published in 1913 by A. Wilhelm, has been re-examined 120 by W. Leaf, who points out that the inscription removes the thousand years' curse which had rested on the Agantii ever since the fall of Troy and cancels the annual dispatch of two maidens to servitude in Troy It lays down the conditions upon which the outlawry of the Acantii and Naryca is rescinded and they are received into the Locrian community. An archaic epitaph has been discovered the at Vlachomandra by K. A. Romaics. An interesting series of eighteen texts from Thermum in Auronia has been edited 131 by G. Souriadis. Most of them consist of one or more records of the grant of mongenia or molerica by the Actolian League during the third and early second centuries no. there are also four statue-bases one of which bears the signature of Lysippus, and two boundary stones inscribed 'Απόλλωνος Αυσείου and 'Αλίου Νίκας 'Aoxhamian A. Plassari III and K. A. Romaios Im have published historical notes on several of these texts and H. Pomtow has dealt in with the Lysippus signature, proving that it has no connexion with the dedication (of about 250 n.c.) which stands above it on the stone, and thus meeting the difficulty raised by Sotiradis, who questioned the possibility of identifying the Lysippus of this signature with the great sculptor of that name. Among the recent discoveries from the west (Thyrceum Palacrus, Anactorium, Ambracia, etc.), described 125 by K. A. Romaios, are a votive epigram to Pan and Franças, an interesting abacus, a list of members of a religious society, and some forty epitaphs. A. Philadelphens' excavations at Nicopolis 186 have disclosed a very early Christian basilica; the most interesting epigraphical find is a messic epigram. D. Comparetti has discussed 12 a revord of a gift to Dione found at Dodona and Salonius; in a work unscenssible to me, has examined the origin and language of the inscribed tablets discovered on the same site. O. Kern has corrected 116 a misreading of a text from Arta, published in C.I.G. 1798 In the Ionian Islands no fresh discoveries have been made, but

¹⁰⁰ Rh. Has, lxx, 400 ff.

⁴⁴ Auc. Great Inter, H.M. Nov. 933, 934

ist Indogeron Franch xxxvi 230 ff.

^[18] Jahreck xiv. 193 ff. Cf. Klie; xini. 3141 (Lehmann Haups); Subrotes, 1, (1913), 188 ff., 236 ff. (Corsson); Rev. Hist. Ret. 1413, 1235.
(A. Reinach).

^{10 8.8.4.} xxx. 1488.

¹²⁰ Apx Achr. ii. wanderman. 10.

in 75, L 45 ft.

⁴⁰⁰ R.C. H. axain, 127 H.

IS APX AVAT. L 280 IC

m Jahrh. xxxn 133 ff.

IN 'Arg. Alareste rumpraus, 47 ff.

¹³⁰ Harries, 1015, 68 ff.

[&]quot; 'Ang. 'Ep. 1910, 33 ff., 65 ff.; Jock. And Cont. 148 ff.

tes Annoverso, H. 259 ff.

Paran de origine et examone rabulariem Declares efficierem, Habilingfore, 1915, Reviewed Berl. phil. Work, exxvil. 892 f. (O. Hoffmann).

²¹⁸ Hermer, in. 146 f. Cl. Apx. Eq. 1015, 33.

Kern 141, Comparetti 141 and Bannier 141 have re-examined and corrected

previously known Coreymoan inscriptions.

The most important opigraphical contributions, however, are those of DELPHI and Thessaly: The new Delphian texts include amongst others, 144 an important fragment of the letter of Sparius Postumins Albims, practor in 189 nr., accompanying the Senatusconsultum passed in favour of Delphi,142 and a document 148 recording the grant of honours to the first Attalids, which brings a welcome confirmation of Cardinali's stemme of the Attalid house. H. Pomtow has continued his publication of 'Delphische Neufunde in two articles, the first of which lat contains 69 texts the great majority not previously published, including the oldest extant Delphian list of Beapodosos (No. 33), a dessier relating to a frontier dispute between Eretria Chalcis and Carystus (39, 40), decrees in honour of a Cretan organist a Theban χοροψάλτρια and a Roman astrologer (51, 52, 61), a mutilated poem recording an Apolline nuracle (65), a Samian thank-offering (ca. 500/490 p.c.) for freedom from the Persian yoke (87). and a monument of Hermesianax of Tralles and his three daughters, who won victories in running, chariot-racing and singing at the Pythia and other festivals during the early years of Claudius' reign (101). The other arricle,148 in which six new texts are published, deals with the relations. of Delphi with Hippogrates and the Asclepiadae and includes a critical examination of the Hippocratic apes Seuricos and of its value for the history of the First Sacred War. 140 To B. Haussoullier is due a masterly edition to of the extant fragments of a treaty concluded between Delphi and Pellama (Pellene in Achaea) in the first half of the third century acwhich affords interesting details regarding the settlement of inter-state disputes; a chapter is added discussing the situation, monuments, products and political metitutions of Pallaus and its relations to Delphi. In an essay 151 on the inscriptions of Cleobis and Biton, C. Robert supports the reading dwyor (= ζυγώι) against dwier or d'wiel and argues that Cleobisand Biton were Delphians who introduced a new cult and that the 'mother' brought von Çeyon was a Mother-goddess, perhaps Leto or Demeter. On several other Delphian texts fresh and valuable light has been thrown by E. Bourguet, 127 M Holleaux 152 and other scholars, 184 G. Klaffenlauch, while accepting Holleaux's interpretation 148 of the title στρατηγώς ή and imavos, differs from him regarding the date of Sisenna's government

¹⁰ Meruna, lii 1471.

¹⁰ Anapario. II. 202 г.

til Bort, phil. Work xxxvil. 1440 ff.

¹⁰⁰ Ber. Dr. dor 22, 20 ff.

¹⁰ Rev. Arch vl. (1917), 242 ff.

in Rev. Lt. Aug. xx, Diff.

na Klin, av. 1 ff.

H# 75 303 任

¹⁰ To. 314 ff.

in Traile autre Delphes et Pollican, Paris

⁽Champlon), 1917,

in Simb. München, 1910, 2.3 ft.

¹³ Rec. Arch vi (1917), 380 ff.

¹²⁰ Ron. El. Anc. weii 237 ff. wis. 77 ff., 92 ff. 137 ff.

¹⁹⁴ Klin, siv. 468.R.; Hermes, iii. 142.B.; Jiii. 110 ff.; Rh. Mus. lxx 395-L.; Ann Accord. Turney, alix, 680 ff.

¹⁰⁰ Herman, slix. 581 U.; Rev. Et. Auc. Mr.

of Macedonia, 134 A. C. Johnson has put forward a solution of some problems of Delphian chronology 187 during the Actolian domination based upon the Amphictyonic decrees: a careful study of these in the light of the internal position of Athens, Eretria and Sieyon enables the writer to fix the beginning and the duration of the Chremonidean War and to draw up a revised list of Delphian archons, councillors and hieromnemons for the years 302-240 n.c. M. Bloch's dissertation its on the conditions of manualismon contained in the Delphian records and A. Boethins' study of the Pythaus 100 Seventy-one new texts from Thessally are both inaccessible to me have been edited by A. S. Arvanitopoulles and N. Giannopoulos. Sixteen of these, for the most part very fragmentary, are from Gonni 100 fourteen votive, manufussory and functory inscriptions are from Gonnocondylum-Olympias 166 and eighteen from Oloisson, Phalamm and Metropolis 162 The remainder were discovered at Demetrias, 101 Nea Anchialos, 104 Phthiotic Thebes 100 Halus, Pyrasus, Pharsalus and elsewhere 100 Numerous documents previously known have been more fully and correctly deciphered or restored and more adequately explained in: special interest attaches to P. Boesch's two articles 100 in which the themydokos-inscription of Gonni, which confirms the contention of Foucart and Rutgers van der Loeff that the Exerciva and the Muoripua are not identical, is examined and several cognite questions and texts are discussed. Giannopoules has collected a large number of objects bearing signs which he attributes to a prehellenic Thessalian script. 188 Arvanitopoullos has drawn up an alphabetical list of the rapids of Oloisson are and a table of concordance Ist between the mumbers given to inscriptions in the Gamii Museum and those under which they have been published in the 'Apx. 'Ed. Two questions of the Thessalian dialect have been examined by E. Hermann Pr

Islands of the Asgean.-The year 1915 saw the publication of the long expected fascicule 103 of the Inscriptiones frances devoted to EUBOEA. This is edited by E. Ziebarth and fully maintains the best traditions of the monumental work of which it forms a part. It comprises 1279 texts, of which apparently all but 310 had been previously published, and though the number of historically important documents is small, it affords abundant

1 Hermin, li. 475 ft.

III Am Josep. Phil xxxis, 145 ff.

¹⁰ Die Feeilangenphedingungen iber delph. Producennyme brillen Strassburg, 1915.

in Die Pythori, Upsala (Almquist and Wiknell), 1918. Reviewed Class Rev. exxiii. 1131 (G. C. Richards), Cl. Asx. Ep. 1913, Sil.

¹⁶⁰ Aux. Ep. 1915, 8 ft.

¹⁰ fb. 16 ff.

im fb. 1916, 17 ft., 78 ff.

⁽a) figuration 1915, 188.

^{10 &#}x27;APX. TO 1910, 89 ff

¹⁰¹ JA TT, 80

im Th. 74 ff.: 4016, G1 f.

[&]quot; 'Agg. Tep 1915; 78; 1916, 17 ff., 73 ff.; Class Rev. sxix. 1964.; Pat. Kept. Fond Q.S. 1915, 203 ff.; Bert, phil. Work axxvil. 1443 ff. Exxviii. 1882.

¹⁴⁰ Herman, Iti 130 ff. 1828; Berl. phil Work arrived 175 ff.

Apx. Ep. 1915, 07 ft. 136 16, 1916, 91 L.

而 16, 1915, 28 年

the Imbigurm, Forsch, xxxv, 166 in xii, ii. Berlin Relnerj; 41 M Reviewed by W. Bannier, Beel, phil. Woch. SANWI 1995 H

material for the study not only of the Eubocan alphabet and dialect but also of the Greek personal and local names. Valuable additions have been made to Eulocan epigraphy by the publication to of the inscriptions discovered by N. Papadakis during his exervation of the Eretran Issum,notably a number of dedications to Isis, alone or in conjunction with other Egyptian gods, an inscription set up in bonour of a hereditary priest by to norde tor medarydopor nai importidue, a subscription-list. two third-century catalogues of con Bos and a list of 49 men and 48 women who officiated as vavapyon in connection with the worship of Isis. An Eretrian opigram (I.G. xij. 9, 287) has been discussed by S. Witkowski, Va. R. A. Mulley 176 and W. Bannier, 177 and a list of Eretrian domes, containing 54 certain and mine doubtful names, has been drawn up and annotated 128 by A. S. Georgiadia

Of the islands in the Northern Aegent Litasos alone is represented. G. P. Oikanomes refers 100 to several Thusan finds of which a fuller publication will doubtless follow, and P. Roussel arrives independently 250 at the conclusion previously reached by A. Remach, 144 that the inscriptions interpreted as referring to female painters in Thases have been misunderstood and in reality indicate only that the ladies gave orders for,

and defrayed the cost of the paintings.

From the Cyclabes we may note P Grainder's publication 181 of a law regulating admission (ropes (σαγωγής) into a Tenan association, parhaps Dionysian in character, dating probably from the early fourth century a.c., his rejection of Wilhelm's emendations of a Tennan magistrates' list proviously published by hum,144 A. Körte's fresh discussion 140 of a Cean victor-list (LG: xii 5, 608) of about 400 ar which is of considerable importance for the chronology of Bacchylides and F. Hiller von Gaertringen's proposal 116 for the restoration of an interesting religious taboo from Paros (xii 5 225).

The inscriptions of DELOS have afforded to P. Roussel his principal material for two important books. One of these, 15 which deals with the Egyptian onlis in Deles from the third to the first century u.c., I have been mable to examine. The other,12 devoted to the lastery of Delos from 160 n.c., when the Athenians acquired the Island, to their abandonment of a possession which after the disasters of 88 and 69 hc, ceased to be problable, is very full and interesting. After an introduction, which includes (p. 21 ff.) a gameral account of the epigraphical sources, the author treats of the

¹⁸ Apx Ashe L. 115, 125, 141, 118 ff. CI Borl, phil. Word xxxvl 388 ff. Zielarth

^{16 76} phil. Work axxvii. 12807.

on the exact 1937 f ; exactle 1442 f.

¹⁷⁸ JAPA. Eq. 1916, 49 H

TO TANK GEAT, IL EXPERTENCE, III.

W Ren Bi Gennin 181 (L. 111 Rec & 11 231 4.

¹⁹⁹ Rose of School (19117), 54 m.

im H.C.H. axxviii. 111 ff.

III Mand Belge, v. 253 ft. " Mernica, Hill, 119 ft.

¹⁰ Birt pall Woch, xxxxx 7961.

un Los cultos égyptiens à Difes de III un I'm seeds uv. J.C., Paris (Berger Lerrault). 1910; Reviewed by H. I. Ball, Jours do. Arch. v. tatt

Delin Colonis Atheniums, Paris (Fonte mongl, 1916,

provenance and organization of the Delian population, the Athenian administration, the cults and prinsthoods, the buildings and monuments of the period, the catastrophes of 88 and 69, and the decay of Deles. peculiar value are the three appendices, of which the first discusses the ahronology of the Attic arabons of the second and first centuries, the second summarizes the chief administrative documents of the period, and the third contains 63 new texts -- an Attic decree and 62 votive inscriptions from the Syrian sanctuary, the temple of the Meyakor Geof and other sites: A. Plassurt has republished be his article on the synagogue at Dolos, which appeared in the Melanges Holleway; A. E. R. Book has examined for al some length, the status and functions of the magistri of Campania and Delos, maintaining that the Delian 'masters' were not presidents of religious associations but magister fasts, annual officials appointed by the colony to supervise the shrines and calts of certain divinities, and M. Lacroix has reconstituted by the stemma of an important Delian family of bankers and timber merchants, together with those of six other closely allied families. On emgraphical grounds, F. Courby attributes 100 the dedication of Antigonus' partico at Delos to 254 or 252 g.c. E. Ziebarth gives some account in of twenty-four Delian trust-funds (B. Laum, in his recent work Stiftmagen in the greechoolien and rominchen Antike discusses only four, the special interest of which lies in the fact that their operation can be traced over a long period, amounting in one case to at least 130 years. Cl. Glotz in an interesting article 101 shows how the price of plich, recorded for various years between 310 and 169 n.c., accurately reflects the fluctuations of Dolos' political relations with Macedon, which enjoyed a monopoly of pitch production, and how the famine price of 40 deschare paid in 279 actually fixes the disputed chronology of the Delian archous of the period of the island's independence. On saveral Delian documents M. Holleaux has thrown fresh and valuable light, on the dedication to of a statue of the orator M: Autonius, consul in 90 u.c., who is tenued or parryyor braves, probably the latest extant opigraphic example of this title, on the honours paid by Prostaenna, in Prisidia, to the same man, 100 who went to Asia as quasstor in 113 u.c., on the decree of the Cretan auxiliacies of Ptolemy Philometor in honour of "Aylang Decklore, known also from coins and inscriptions of Cos and Calymna, and on the closely related question of the date of the Kpyrocky zolono, mentioned in a decree of Halasarna (Cos), and in a dedication of Nayros (LG, xii. 3, 103) 207 In his Neue Beiträge zur griechischen Inschriftenkunde, IV. A. Wilhelm calls attention 15 to a Delian decree at Ecyclea which has been omitted from L.O. xi. 4, and discusses 320 the regulation for the sale of chargead and wood, maintaining against the French editors that nothing has been lost at the

¹⁰⁴ Res. Hild. xl. 528 ff. Ct. Phil. Eryst.

Panel Q.S. 1915, 501 ft,

in Cham Phil at 23 ft.

III Ros. Rr. Gr. Xviz. 188 II.

⁼ B.O.H. xxxvin. 206 ff.

¹ Hormes, El 425 0.

¹⁰⁰ Bee. Lt. Gr. xiz. 281 ff.

in they, fit, the xix Site.

¹⁸ D. DIL CL 95 ff.

W flog. Et. Or. Exi. 88 ff.

m Sifth Woon, change, 6, 20 ff.

¹⁰⁰ 以业正

beginning of the extant text. R. Vallois republishes, we with a full commentary, a curse-inscription of about 250 a.c. (I.G. xi. 1296), and in an interesting essay, modifying and supplementing Ziebarth's article on the subject. **1 examines the literary and engraphical evidence for the Greek åpa.

Hiller von Gaertringen has pointed out ³⁰⁸ that the term everytera in an inscription of Thera (*I.G.* xii. 3, 465) may refer to the Romans and not, as hitherto understood, to Ptolemy III and Berenice. The new inscriptions from Chere are few in number and slight in interest, with the exception of a dedication from Gortyn ³⁰⁹ and a dialect building record (second century i.e.) from Lato *xpôs Kaµapp.²⁰⁴ Several inscriptions have been corrected or interpreted ³⁶ the Orphic poems from Eleutherns have been re-edited ³⁰ by A. Olivieri, and the clauses of the Code of Gortyn dealing with rape and adultery have been discussed ³⁰⁷ by L. Gernet. Of epigraphical materials for the study of the Cretan dialect, E. Fraenkel's contribution to the S.G.D.I. bas already been noticed, and only E. Hermann's notes ³⁰⁸ on psilissis in Central Crete still-call for mention. ³⁰⁹

K. Konrouniotis excavations and researches in Citios have produced. 210 together with other interesting results, not only valuable corrections of and additions to inscriptions previously published, but also eight new texts from Phanae and Cardamyle, and an interesting decree and contribution-list of the early third century (1) from the fort of Chios. Thanks largely to the activities of Italian archaeologists, the number of new inscriptions from RHopes is considerable. A. Maiuri has published 111 a Grees-Phoenician votive and 187 other Greek texts (only nine of which were previously known), found in the Spondes and now preserved in the Archaeological Museum at Rhodes; 212 the great majority of these (Nos. 27-187) are short epitaphs (No. 27 dates from the first half of the fifth century B.C.), and the remainder are mostly votive or honorary inscriptions, including a long list of distinctions granted to some unknown person in the third century R.C., interesting for the names of religious and gentilic associations which it contains (No 10) building-inscription and 22 opitaphs have been published 20 by G. Cl. Porro and 17 funerary and other texts by M. D. Chaviaras 214 Rhodian stamped amphora-handles have recently attracted a good deal of attention, and the valuable work of Nilsson and Bleckmann has put their study upon a firm basis. G. G. Porro has edited 223 602 such stamps found at Kalavarda, in the perritory of Camirus; of which four belong to Thasos; four to Olhia, two to Condus, and thirteen bear simple sigla, while the remaining 579 are certainly

^{*} B.C.H. xxxviii. 250 ff.

^{**} Hermon, xxx. 57 fl.

²⁰⁰ Herman, Ha. 470 f.

ses stammario, li: 311 l.

^{*} Арх. 'Еф. 1915, 51 f.; Annuario, и. жий. Арх. деят. И. ИИ.

^{100 &#}x27;Apx, 'Ep. 1915, 32, 94; Hermes, III. 475.

⁼ Lansillae aurens Orphicus, Bom (Mazena und Waber).

^{37.} Bev. Et. Gr. xxix. 383 ff.

^{*} Indopera Forsch xxxv. ld. ff.

Der Gortyn of Atom o Roma, write.

^{=* &#}x27;Asx. Asav. 1. 76, 84, 91ff.; ii. 213 ff.

жі Аппонер, п. 267 ff.

in 16, 131 ff.

^{=3 /}b. 125 ft.

^{34 &#}x27;84X '24. 1915, ESH. No. 1 = dimensio. ii. 130, No. 2

at Anniniro, ii. 100 ff.

Rhodian J. Paris has published ¹⁰⁶ a collection of 262 similar stamps found in, or near, the capital, and now in the passession of the Scolasticat des Frères des Écoles Chrétiennes, at Rhodes. The publication of the Petrograd collection has already been referred to B. Keil has examined. ²³⁷ from the stylistic point of view, Timachidas' narrative of the émphasiai of Athena Lindia contained in the famous Landian temple chronicle, and concludes that the laws of style formulated for the konol had by about 100 nm been applied to the Dorian konol, as written at Rhodes, and that it is possible to infer the character of the instruction given by the famous teacher of style and thetoric. Apollonius à μαλακός. F. B. Tarbell calls in question ²¹⁸ the interpretation and the provenance of a vase-inscription purporting to come from Rhodes Of the neighbouring Stonades, Syme, Cos. Patmos, Levinthos, and Leipsin have produced twelve inscriptions, edited by N. D. Chaviaras, ²¹⁸ and Teles a dedication to Hadrian. ²²⁰

Asia Minor—In a long and valuable article at on The Utilisation of Old Epigraphia Copies. W. M. Ramsay has emphasized the importance, and defined the methods of restudying copies of inscriptions made by the older travellers, such as Lucas and Hamilton: twenty-eight previously published texts from Kania. Ladik, and elsewhere are discussed and corrected, and a boundary state (host quaraciae (article) of about 100 a.b. is published for the first time. In Eurys Evans' notes on the consumants in the Greek of Asia Minor at draw their material largely from epigraphical sources. Of the scalptured monuments of the Mirapocult from Asia Minor, described and discussed and discussed by J. Keil, five bear brief dedicatory inscriptions, of which two were not previously published.

In his Studies in Hellenistic History M. Hollenius has shown 22 that the alleged conflict between the Lampswernes and the Galatians in 197/6 g.c. is due to an untemble restoration of a famous decree of Lampsacus (S.L.G.) 278) and that 22 the foundation of the Nicephoria is proved by Polybius and by Pergamene inscriptions to belong to the period 226-3 g.c.

The inscriptions discovered in the Delphinium at Millerus continue to attract attention and study—especially that relating to the Milesian pulkace. who, according to W. Vollgraff constitute a society, or corporation so wide as to include practically all Milesian citizens. Valuable work has been done by J. Keil on the inscriptions of Errissus—Three wall-blocks of the Arientianum, inscribed with twenty-eight more or less complete decrees

²⁰ H. C. H. 1219 H. 300 H.

¹⁰ Her no, 11 1911C

¹⁰⁰ Ches / Wall to 100 f.

^{12 (}A) Tak, 1910, 1911 II

[⇒] Associate, H. 131 For Con and Nogrosson alon Ren. Rev. Co., vax. 88 ff.

and J.H.S. associal 124 ft, Cl. Cham two.

⁼ LH.S. XXXVIII 150 ft.

⁼ Chr- Quant sh 1回生

⁼ Jahrenk, WHI, 66 IL

THE -VOL XXXIX.

a Rey, At. Aug. xxiii, 1 ff.

^{= 11. 170} f.

⁼ Judgeot will Belldatt, 257 ff.; Rev. Ft. Gr. zww. 185 ff.; Atts. decad. Torion, alia. 1280 ff.

in flast phill Week exactly 977 8, 2 Brumer,

F. Manger, Discription Militarium of pres come Magner, Discription Militarium of pres come Magnerium faren, Auguinery, 1914.

granting citizenship and woofcoin, afford us our earliest extant examples of Ephresian decrees (before \$21 n.c.) and of the Ephresian count still marked by sporadic lonio forms.200 A new list 20 of the Ephasian yilliagroes gives us thirty-one names distributed among six tribes; an article 322 dealing with the excavations of 1913 contains two interesting honorary inscriptions, four fragments of a votive text to Ephesian Artumis and the Augusti and the iledication by the Ephesian dimos of it aderopia and to never analysis and rois Smiles, and the inscription " on an altar of the third century of our area contains the title Americ applied to Aphrollite, known hitherto only from the Etymologicum Magnum. We must also notice E. Weiss's full discussion 254 of the juristic aspect of the important document engraved on the Register Office, derrypacistor, at Ephesia, meanding the fees parable for various official registrations, etc., P. Foucart's identification 28 of the hero Heropythus, whose cult is attested by an Ephraian inscription, with the democratic leader, who, after the battle of Chaeronea and the advent of Parmento in Asia Minor, proclaimed the freedom of Ephesus, and M. Holleanx's discussion of the decree of Ephesus relating to the Frienian defenders of a Xapas. To the new edition of the long inscription of Catus Vibina Saluturis reference has already been made. The remaining cities of Ioxia are not so largely represented. P. Roussel has commented as on the phrase of Populier in epitaphs of Tees and Erythme: A. Withelm has adduced arguments = in favour of the Clazomenian origin of an interesting historical text usually usaigned to Erythmo (Hicks and Hill No. 159) and has interpreted 200 an inscription of Magnesia on the Macander defining the conditions on which a public weighing apparatus in the market-place was leased to a contractor; If Keil has published at an inscribed sepulchral relief of the first hulf of the first century n.r. from the same site; T. Macridy and C. Picard in an account "12 of the excavation of the temple of Charian Apollo at Columbion, publish a third-century decree referring to Columbian in that dalagram, and add notes on the 125 texts discovered in the temple precincts.

Under the title Lydian Records W. H. Buckler has edited *** 27 inscriptions from various sites in Lydia (Philadelphia, Mermere, Phyatica Hierocaesarea, etc.), of which only five were previously published, and those incorrectly or incompletely; some of these, as for example the epitaph of Praylins (No. 8), are of considerable interest. The same scholar has republished *** with restorations and a full commentary five Lydian propitisatory texts and has added a sixth previously unknown, and F. Cumony has discussed *** a somewhat similar dedication to Analtis from

⁼ Juliensk, vr. 231 ft.

^{= 16. 243} ft.

^{78 16.} xviii, Belibute, 270 ff.

中 H xm. 146亿

¹⁰⁰ R vrint Beildatt, 385 ft.

⁼ th you beidiate, it = the Philad all, odit

DE Et HE ENLE 2011

^{₩ 16 179} ft

²⁰ No. Wen, da cia, 0, 20 ff.

^{** /}A /8/IC

³⁰ Dahrech, 211 178 tt.

TH J. H. S. XXXXVII. 88 H

on 11.8. 1 and 109 (1)

⁹⁹ C.R. Acad Pries 1915 270 ff.

near Kula illustrating the domination of sun worship and the syncretism characteristic of paganism in the second and early third contary. Though falling strictly outside the scope of this article I cannot refrain from mentioning the articles of S. A. Cook 20 and O. A. Danielsson 207 on the Lydian-Aramaic bilingual text; the most interesting of the fifteen Lydian documents published 108 in the official account of the American excavations at Sardis. A. Brinkmann has commented 200 on two inscriptions from the temple of Zens Panamarus at Stantonicea in Canta. A. Wilhelm has thrown valuable light on a text from lasus recording the foundation of a trust-fimd, 300 M. Holleaux has referred to an inscription of Trailes 161 and has shown and that the author of the well known letter to Heraelee sub-Latmo is not as is generally hold. On Manlius Voiso but probably one of the consuls of 188 a.c., and P. Roussel has annotated = an inscription of Loryma in the Rhodian Peraca. The famous epitaph of Abercius, Bishop of Hierapolis in Punyota, forms the subject of an article 24 by L. Saint-Paul and of a note 235 by W. M. Ramsay. The grammar of the Greek Inscriptions of Lycia, about a thousand in number, has been fully treated in a careful dissertation as by K. Hanser. J. Sundwall's monograph on the native Lycian names 122 and W. Ackwright's notes 100 on the Lycian alphabet call for a passing mention, as also A Wilhelm's suggested correction of two Greek inscriptions from Lycia, 330 To Wilhelm we also owe a number of valuable comments on and opendations of texts from Southern Asia Minor recently published by Paribeni and Romanelli (cf. J.H.S. xxxv. 268). M. Holleaux has published on notes on the letter of Attalus (II) to the critizens of Amlada (Dittenb. O.G.I. 751) and A. Hadjis has suggested or a small correction in a text of Attalia. Twenty-four inscriptions of Castellorizo (Megiste) and nine which have been brought to that island from the neighbouring mainland have been collected and edited by a French naval officer and discussed by M. R. Savignac and E Michon. In their provisional account of a journey in Culicia, J. Keil and A. Wilhelm include a preliminary publication of various documents, notably a new fragment of the record of honours paid to Emlemus of Seleucia on the Calveadnus, an important functionary at the court of Antiochus IV Epiphanes an interesting decree in honour of a priest

100 J. H. S. XXXVIII. 77 H. PRINT.

per Ilki Mus. Ixxii 100.

ill Zo dan tydio hen Incheiter, Uppunla: I ke ou dec.

sands, Vol. VI., part h. By E. Littman, Leyden (Brill), 1910.

⁻ Simb, Wien, slavin. 6, thin Cl. Sear Eligenporture, til. 1.

m Ber. El. And avid 247.

^{= 1%} mg. 231 d.

¹⁰ feet. 22. Or. axia, 1841. 104 Ren. Philliel, elit. 28 ff.

⁻ J.H.S. TEXYIE 1902.

to Brandmittel the gr Inchritica Lyhnor, Balo Birkhauser), 1916.

at Die einbermieden Namen der Leuber. 1913

[&]quot; J.H.J. XXXV. 100 H.

Said Wier, Prair H, 684

⁴² R. 5Mff. Cl. Jahrech, zviii, Beildatt, a.

on then he does at 17 ft.

[&]quot; 'Ary 'Ea 1915, At.

⁴⁵ Ris. Bibl. ziv. 287 II.

at 15, 258 t., 333, 546 ft.

²⁰ Lebreck 2240. Bollibatt, 1 H.

of Athena & Tayans and a dedication from Anazarba dated 92/93 a.D. in which Domitian is honoured as Dionysus Καλλίκαρπος and a new Governor of Cilicia Q Gellins Longus, appears. From Cyprays there is little to notice. M. Markides records the acquestion by the Nicosia Museum of the dedication to Zeus 'Oρομπάτας (cf. J.H.S. xxxv 269) and of a new fragment from Fronance, while E Hermann and W. Bannier discuss points raised by texts in the Cyprian syllabic script. In northern Asia Minor I need only mention nine Greek inscriptions from Sinope of which three were previously known, published they include the bilingual epitaph of an excenturion from Carnuntum and a statue-base of a Sinopean boxer with a list of the 200 rictories won by him in various contests in Italy Sicily, Greece and Asia. I have been madio to consult R Leonhardt's work on Paphlagonia.

Quilying Regions.—The number of new Greek inscriptions from Prux is surprisingly small. Sex Rhodian amphora-handles and two openful have come to light at Oatin st, at Rome five epitaphs have been discovered and in addition to the four annualished texts. Nos. 1874, 1980, 1761, 1853) inclined in the supplementary volume of the Rossi's Incorreptioner Christianne " Otherwise only the potters signature in a vasa from Vignacello at and the two Paratheraic amphorae of the late sixth century from Louri Epizephyrn an eall for notice here. On the other hand, the interpretation of previously known documents has made marked progress. The three Orphic texts found in tombs at Thuril form the subject of a considerable dissertation or by J. H. Wieten, while all the inscriptions of this class-from Thurst, Petalin, Rome and Eleutherms (Cret.) - accollected and edited in one of Liebzmann's excellent Kleine Traje to F. Cummit has dealt afresh " with the dedication of Gaiones becavoxpitys, the Syrian cistiber Augustorium in Commodus' reign, found in the Lucus Parriage on the Jamestian; J. Offord gives some account = of the Jowish inscriptions collected in the new hall of the Christian Museum of the Enterna devoted to Rebrew records; C. A. Hutton supports the gammin ness of the Apollomius-signature (I. G. xiv. 132*) at Petworth House 2-1, other

Cyprus Assemble Report of the Usrahin or Amagans a Nicosa, 1917.

[&]quot; But phil. Work exact 1110 a

see I must ti, sto despiration's article on Cappe beauty and Pontis Inscriptions in Meanger in Beginner, vil stone this work is many within to me

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⁼ Panhlogonia, Rorlin (Reimer). 1912. 20 M.: Rerowed Rev. 1842. Week axxvii. 1983f., Or. Ling. 1914, 244 ft.

Myn. Aus. 22011. 440 ff., 1644 f.
 Myn. July 1912, 32, 167 (1917) 283.
 My Diver. Christ. webs. Roman VIII over the

⁽⁶⁾ Noricie, 1916, 53

年 76. 101元 146, 165.

Thursday in the American (Chanen), 1915.

Boul (Marous und Weber), 1016; 1 M.

²⁰ C. R. Acad Juner, 1917, 275 H. Ct. Rev. BM, 21, 2011.

Poll Expl. Fond Q.S. 1916, 145. See Name Bullstone Arch. Crys. 1915, L.2 (Graabus)

mi B.S.A. xxi. 163 ff.

Roman inscriptions are discussed by L. Radermacher ³⁸² and W. Bannier. ³⁸³ The correction of a Pompeian graffito ³⁸⁴ and the interpretation ³⁸⁵ of certain terra-cotta hom-weights from Taras (Tarentum) need not detain us. Of greater importance is D. Comparetti's examination ³⁸⁵ of the inscriptions on four bronze tablets of the fifth and fourth centuries a.c. from the Achaean cities of Crimisa, Caulonia, Petalia, and Terina in Southern Italy, all of them testamentary in character: the example from Terina had not been previously published, while that from Crimisa was known only in a very imperfect copy and restoration. ³⁸⁵

The harvest from Sixtly is also strikingly meagre. Messans has produced ²⁸⁸ a number of epitaphs, defixiones and brick-stamps as well as two Greeo-Osean inscriptions of the Mamertine period: eight brief archaic texts come from Selinus and three from Motye. The remaining twenty-nine inscriptions—from Catama. Syracuse ²⁰¹ Conturps ²⁰² and Salemi ²⁰³—do not call for detailed mention. The concluding instalment of the S.G.D.I. includes addenda grammar and index to the Sicilian dialect inscriptions, edited by K. H. Meyer.

A bilingual Christian epitaph and a fragment of a Greek inscription have come to light at Carthage 200. Of the finds made in the Cyrenaica I cannot speak, as the publication in which they appear is not accessible to me. 201 In Egypt discoveries have been more plentiful and of greater interest, but for these I must content myself with a reference to my Bibliography which will be found in the sixth volume of the Journal of Egyptian Archaeology.

For the inscriptions of Syria and Palestine the periodical reports of F. Bleckmann, the latest = of which deals with 1013/14, are full and valuable. A building record of 561/2 a.u. from a messic pavement at Shellal, = mar Gaza, a brief text from Khan Youngs = and a fragment of a dominent of the early Imperial period from Joppa, = now in the Museum at Uddevalla (Sweden), should also be noted, as well as J. Offord's comments on two Palestinian inscriptions recently published. = The island of Ruad, the ancient Aradas, has produced (in addition to a Rhodian amphorahandle, a vase inscription and four weights) eight Greek texts of which the most interesting are a Greeo-Phoenician bilingual dedication to Hermes

¹⁰⁰ When, Stand, xxxix 70 ff.

[&]quot; Berl phil. Week, xxxviii 981.

we "Apx. "Bo 1915, 32

at Arch. Atez. xxxl. 118 L.

²⁴ Annearm, 11. 219'n'.

ne A. Vogilaco, Atti Accol. Porton alia.

see P. Gon, Mor. Am. xxiv. 121 ff.

Motife, 1917, 341 ff. Cf. for Motye, 1915, 438.

see 18, 1915, 216 A., 1918, 60 ff.

²⁰¹ fb, 1915, 185, 200, C1, Reel, jobil, Work, Ecovill, 980 f.

²³⁴ Noticie, 1915, 230 L.

mi Mon. Am. xxiv, 697 6.

^{**} C.R. Acad, Janes, 1916, 4237, 1918,

²³⁴ Netinario Archeologico I. fans. I. 2. Rome (Ministerio della Colonia), 1915. See Ren. Asch. n. (1915), 492.

²⁰⁰ H. d. d. Pathetime-Versine, xxxynt.

Pal. Expl. Fund Q.S. 1918, 145; M.S. Briggs, Berlington Mag. May, 1918; Rev. Riol. xiv. 560 E, xv. 590.

[→] Rec. Hill, xiv, 1724.

no H. Armini, Ernace, xv. 208.

²⁰ Pal. Expl. Fund Q.S. 1915, 198 ft Ct. Rev. Bibl. xii. 270.

and Heracies, a mutilated epigram and an honorary inscription on a statue-base of the well-known C. Antina A. Inlius Quadratus, governor of Syria in the early years of Trajan " Two further instalments of the collection of Grock and Latin inscriptions made in North Syris by the Princeton University Archaeological Expeditions have appeared and maintain to the full the high standard attained by this publication. ()ne of these parts and devoted to the Hauran Plain and Diebel Hauran, contains 185 inscriptions, mostly sepulchral and votive of which 100 were not previously known: these include a dedication of a suppose and a because for the safety of Gallienns (No. 636), a building inscription dated 45 A.D., the earliest text with an emperor's name which has come to light east of Anti-Lebanon (No. 6552), and a votivo to beac Gedropios (No. 763). Three further inscriptions from the Hauran have been published by F. Bleekmann "" The remaining part of the Princeton collection and contains eixteen Greek inscriptions of the interesting Greeo-Nabatsan site of Si (Socia), of which only three appear for the first time, including one (766) consisting of sixteen fragments of the edier of Agrippa, portions of which have been found at Kanawat (Dittenb, O.G.I. 424). A. Harnnok has discussed at some length bee the oldest Greek church-mecription, discovered at Deir Ali, 22 km. S.E. of Damascas: it was inscribed over a συναγωγή Μαρκιωνιστών. a Semitac-Greek village church, in 318/9 A.D., in the brief period during which herenical churches might publicly declare themselves as such. Of the article by M. von Oppenheimer and F Hiller von Gaertingen on the cave-inscription of Edessa with the latter of Jesus to Abgar' I know nothing save this title 307.

Excavations on the Serai Point at Constantinophe have unearthed a number of Byzantine stamped tiles—and six late inscriptions, of which the epitaphs of Photinus and a\$\beta\$\$\partial \text{Sa}\$\$ Arravivo and the building-record on the tower of Michael II. and his son Theophilus are the most calculated. Three Greek texts were discovered on the Gallipoli Peninsula during the military operations—a dedication with by the \$\tilde{\eta}\$\text{pass}\$ of Elacus to Attalus II. saviour and benefactor of the city, and two epitaphs from Savia Bay we belonging to the second century of our era, one of which mentions the \$\pi\text{\darks}\$ to various Greek inscriptions found at Ulinetum, Mangalia, Constanza and Historia; at Kam Orman, a vicus of the last-named, a new and interesting fragment of the "Aristagoras Inscription" (Dittent).

ma Rec Bild, dint, 574 ff.

^{= 16.} xir. 204 /f.

Princeton Univ. Arch. Espectations to Sgrin, Div. III., Sections A. Pars 5, Leyden (Brill).

¹⁰¹ Zeite d. d. Paldwant-Pereins, xxxviii.

⁼ Drv. III., Section A, Part 6, Laydon (Srift).

[&]quot; Sittle Berlin, 110 % 748 ft.

²⁴⁰ ftc 1918, 847 ft

and Arch, Am. savi 17 d.

^{** 16.} SEC.

^{10 (}N. Asx. Ed. 1915, 31.

¹⁰ Class Quart, st. 1 f.; C.R. Stad. Iner. 1917, 29 L.

an A.S. d. wal, librar.

¹¹ Arch. Acc xxx 230 0.

Sult? 325) has come to light "4 and at Histria itself a second century votive sof up to the Διόσκοροι Σωτήρει by οί στρατιώται πεπλευκότες έπι βοηθείαν "AwoXXweedrase." From the same town come four Greek texts, edited by K. E. Illing 316 three of which were erected by the Council and People της λαμπροτάτης Ιστριηνών πάλεως in honour of Caracalla, Severus Alexander and Julia Domna respectively G. Soure has continued his articles on the archaeology of THRACH MT discussing a number of 'unpublished or little known documents' inclusive of eight inscriptions, one of which records a decree 213 passed by the Lacudagmonians in honour of M. Ulmus Genialis, a native of Trajana Augusta and honorary sitizen of Sparta, for ή περί παιδείαν και λόγους σπουδή. G. Kazarow has been active in the preservation and publication of tuscriptions recently discovered, many of them during the course of military operations at Kara Orman, 20 Malko Tirnovo 250 and various points on the Aegean coast from Aenus to Abdera 350 F. Prausigke has discussed the Scaptoparene Inscription (Dittente Syll* 418) in relation to the Imperial Chancery at Rome and M. Holleaux has proposed at a new restoration of a difficult passage in the degree of Dionysopolis for Avornion (Dittonb Syll. 342). The interpretation of the Thracian inscription engraved in Greek letters upon a gold ring found at Ezerovo continues to exercise scholars, but the problem still remains unsolved are

On G. P. Oikonomos' collection of inscriptions from Machonia, which I judge to be a work of some importance, I am anable to report from first-hand knowledge with the same editor is due a preliminary publication of various finds made at Salonica while two opitaphs have been discovered with by A. J. B. Wace at the site of Olynthus, and several points in the famous inscription of Lete (Dittent, Sydl 1 218) have received fresh treatment from (). Cuntages A series of thirty-two texts from Beroca (Verria) has been published by A. K. Orlandes, of which one, a votive erected to Atargatic Σώτειρα by a priest, dates from the third century i.e., while the remainder belong to the Christian era; two interesting manumissions of 239 and 261 a.p. take the form of dedications τῆ θεῷ Συρίο Παρθένω. Finally the lower part of an alter with a bilingual inscription has come to light at Poetovio (Pettan) in Styria.

Marcus N. Ton.

m. 78 2481.

m 16/269 f

we Berl, phil Work anxvii 1634 ff.

nt Rec., Arch. L. (1915), 71 IL; H. (1915), 160 ff.; iii, (1916), 300 ff.

^{20 16,} il (1916), 201 ff.

¹⁰⁰ Auch Aug TEX. 180 ff.

三 形。87年

and Arch. Asa castii- 1 h.

Schriften d. wiss. Gondlichaft Strawburg. gxx. 1 ff. Cl. Rev. Avgs. n. (1915), 1724.

⁼ Rev. &c. Aur. ziz, 250 ft.

⁼ Bie indo-greeo italian filet ling, and i

²⁰⁰ ff.: Indopera Forch xxxvii. 200 ff.: filama, vii. 86 ff.; Bull, Soc. Arch. Rulg. iv. 70 ff., 232 ff.

^{**} Estypupal via Maxedorias resixes *, Athena (Saketherias): 4 dr. Cl. 'Apx. 'Ep-1913, 33

Next dear in employmen, II; Cl. Juhrech

¹⁰ B.S. L. Exi. 14.

⁼ Herman, (iii. 102.ff.

[&]quot;Arg. Arat. il. 1818

[.] Johrech, xvil. Beddatt. 110

POSTSCRIPT TO PAPER ON DIADUMENUS HEAD.

Since finishing this paper I have observed a serious omission in it. I have not given any exact reproduction of the pattern on the headband produced by the inlaying of silver. This defect I now remedy. Mr. E. H. New has made for me a careful drawing from the original, in natural size.



The pattern is of a familiar type, the alternate lotos and bud; but it is a very interesting variety, to which I have not found any exact parallel. The form indeed, is much more like a palmette than a lotus. The base from which the leaves spring is bout shaped, not oblong, and there seems to be in the drawing some attempt at perspective. We know in fact, that the principles of perspective were applied, not to landscape but to architecture, as early as the middle of the fifth century. On the central leaf of one palmette there are traces of a pattern.

The question arises whother the design is merely decorative, as on many Greek ruses, or whether it has some meaning. Closely similar to the lotus or palmette of our design is that on the crown of Hera on the coins of Elis (B.M. Cat. Peloporassus, Pl. XII.). The palmette also occurs on typical sculptured heads of Hera, such as the great Ludovisi head. It is noteworthy also that the thunderbolt on the coins of Elis often resembles in form two palmettes united at the stem. The coins bearing the name of Elis were closely connected with the Olympic games. Whether this line of connection is sufficient to relate our head to Olympia is doubtful, but for the head uself Olympia is a very probable source, remarkable bronzes having been washed up by the rivers on the site.

P. GARDNER

NOTICES OF BOOKS.

L'Archéologie française en Asie Mineure et l'expansion allemande. By F. Santiaux. Pp. 55. Paris: Hechotte, 1918. 2 fr.

This tecture delivered before the Social de Gregorphic gives an interesting historical akeleh of archieological activities in Asia Minor beginning with the days of Frencis 1., and of the decline of French enterprise during the last forty years, a period marked by ever normaning afforts on the part of Germany.

All the world knows that Germany prostricted her accentific missions to the service of her political schemes, and when he spoke (the becare was delivered in February 1918) M. Sarriaux would not have been human if his stricthree on the slackening affects of French source had not been tinged with regree at lost political opportunities, which if select night have spared France part at least of her agony.

In effect the brochure is a political pemphlet, and the author in urging a return to the policy which brought France archaeological removn in the pear is, very perionably, not perhaps wholly awayed by seal for the interests of grobneology or for the accentific reputation of his country, and he may be suspected of losing sight of the international character of science and art

A short secount is added of exervations undertaken by the author in Phoeses in 1913, 1914, the study of which place as the mother city of Marseilles is regarded as the special right of Frenchmen, and indeed as a pious duty; and the work concludes with a description of the pillage of the fown by the Tarks on the 12th June 1914.

Myths of Crete and Pre-Hellenic Europe By Dosain A Mackeszin. Pp. 361, with 37 Plates (4 in colour). London Gresham Publishing Co., 1917.

This best contains a good popular account of the discoveries in their and the borders of the Account and of the probable relations of Crete with her neighbours. The title would seem to be a missioner, but the pull of the Great Goddess' in Crete leads the writer, quoting parallels from many lands, to administrate a theory of ethnic relationship leads on a common worship.

The lavish use of the word 'probably' has permitted the construction of various speculative addition which it may be suspected might be undernmed by a close examination of their foundations, and this suspected is strengthened by a certain lack of discrimination shown in the choice of the authorities quoted, who would appear to differential in weight.

It seems, then, likely that the chief value of this book will be for the layman as an introduction to the study of the many subjects touched upon in its pages.

The book is well illustrated, but the four coloured plates by Mr John Dinnean, A.R.A., whose inspiration is drawn from the Minoan freecosts are too well in keeping with the author's design.

Sikyoniske Vaser: en arkneologisk Undersøgelse. By K. Fans Johassen. Pp. 171, 21 plates. Copenhagen: V. Pios Boghandel, 1918.

The vasce which Johansen calls Sicyonian are, broadly speaking, those which have commonly been cyled prote Corinthian, rather for the sake of convenience than from

any general conviction that they were manufactured at Corinth. Their real origin is disputed they have been attributed to Corinth, to Argos, to Boootia, to Chaicis and even to bonia Lesschick suggested that they were Suyuman, and Johanson, after a careful study of them, comes to the same conclusion.

On grounds of technique, shape, and in some measure provintance, Johansen is lied to believe that the so-called 'Delphian geometric' portery, some specimens of which Furtwangler had already connected with 'proto-Corinthian,' is the Shayonan ware of the geometric period. In 'proto-Corinthian' ware proper he discriminates three periods, which he names after characteristic shapes, the periods of the broad, this pointed, the tall arybalion and within those periods he makes a further classification according to shape and style. For the purpose of his study he has critical most of the measures in Greece and in Italy and has sought out and examined the relevant objects with the greatest diligence: in particular he has investigated a number of impublished finis, and from these, together with the ample material already published, he has been able to draw important conclusions as to the sequence and comparative chronology of his rases.

The broad aryballot, and the vases which go with them, belong to the late geometric period and are continuously with the early prote after vases the new geometric thoments are derived from Cyprus, partly by war of Crote. This period is automated by that of the pumbed aryballos, in which Sucyonan vase painting culminates: the simple geometric patterns and antiform rows of animals give way to holonogeneous rows of animals and scenes from life and myth; the black-figure technique appears with its messon and added red and white; masterpieces are produced like the Mamilian lekythos in the British Museum and the Chigs vase in the Villa Ginlia. Contemporary with those archaic vases is a group of "with geometric" vases, usually of less loving workmanship, which continue the style of the first period, that of the broad arybullos. The third period is that of the style of the first period, that of the broad arybullos. The third period is that of the tall arybullos; Sicyonian vases now show Corinchian influence and are found added by adde with vases of pronounced Corinchian type.

Initiations of Sicconian vascs were made in various localities, especially at Cunne. The arguments, negative and proffive, for the Sicconian origin of the ware are very permunively stated by Johansen. The inscriptional evidence is unfortunately scarty. New light may be expected one day from Siccon: but the place has not been excavated.

The last chapter of the book deals with the chronology of Sieyanian pottery. The author compares the yield of Sicyonian rasss by Syracuse, Magaza and Gela with the dates given by the ancients for the foundation of these cities. A certain number of Syracusan graves belong to the period of the broad seyballos; only a few specimens have been found at Megara the oldest Sicyonian cases found at Gela belong to the trensition from the formal to the pointed type. The stylistic argument would therefore place the three catios in the following order. Syracuss the oldest, then Megara, ticla last : which is the traditional arder. This encourages the author to scorpt the tradition for the absolute as well as for the comparative chronology of these cities; so far, at any rate, as to date the foundation of the three to the later part of the eighth century. The period of the period stylallow will thun be the first half of the seventh contury, a data confirmable by the evidence from Egyptian searchs, by the absence of Sicyoman were at Nancrates, and by the prevalence of the cuiffure known as 'layer hair,' which on other grounds is compilered characteristic of the seventh century. Approximate dazes for the first and third period may be obtained by working backward and forward from the date assignable to the second

The above is but a summary of an important book which maintains the high standard of Danish archiveological work. It may be added that the book is well printed and well illustrated, and outsine many observations on the history of shapes and ornamentation which will be of interest to scholars working in similar fields.

EXTORIA THE EXAMPLEIS AMMORIAS GIKONOMIAS By A. M. ANDREADES Pr. an + 624. Athens : Raphtania, 1918.

This work forms part of a systematic survey of public finance, with special reference to the mance of modern throsec. In spite of its title, it does not cover the whole ground of matient Greek statecraft, but morely deals with a few special topics such as the public economy of Athena and of the Byzantine Empire. The finances of the great temples, of the federal states and of the post-Alexandrine monarchies receive no consideration, although the author promises to discuss them in a future troubes of vider courses. So far as it goes the present back answers its purpose well. Though somewhat lacking in datail about the administrative methods of the state passed under review, it offers a full and clear conspectus of their revenues and outley. Except in the section on Byzantine mance, where he breaks new ground, the author makes hardly any fresh contribution to the knowledge of his subject, but he makes judicious use of the results of resent research, and he employs his side knowledge of general economic history to good affect. Prof. Andreads should be capable of producing a standard work on Greek finance, but his present book is not likely to displace any of the existing manuals.

The Selencid Mint of Antioch. By Howard T. Nawsta. Pp. 151, with 13 plates and 33 cuts in the text. New York The American Numerical Society, 1918. Five dollars.

Mr. Newell's used promising attack on the complicated series of problems presented by the coins bearing the name and types of Alexander the Great has been grievously interrupted by the cataclysm which has placed so many important collections out of bounds to American, no less than for British, scholars. He has turned part of the interval to excellent account by making an excursion into the neighbouring realm ever which the Saleuridae provide. His investigation has, of course been hampered by the lack of casts and other reliable information: one cannot be certain that 'pavotal' specimens may not be lying unrecognised in the trays of, say, the great cabinets as Berlin and Vienna. This handway notwithstanding, he is to be congratulated on having achieved a notable advance.

Long ago I ventured to suggest in the pages of the charmoid that the intensive study of small groups of specimens, pronuncilly the products of particular mints, offered the has hope if progress towards a properly ordered and final arrangement of the numey of the Salancid Kings. Mr. Newell has bettered this advice. Greatly during, he has vantarial to tackle the output of what we must suppose to have been the most prolific mint of all; and has endeavoured to catalogue the royal gold and silver issued at Antroch from the reign of Salmonn II. down to the end of the dynasty. It is, of course, regrectable that the earlier kings are omitted. But the questions relating to these are and difficult that it would have been little to approach them without the assistance of hundreds of casts which at the moment it is impossible to procure, and we must perforce acquiosce in the relatively late beginning. Fature workers will find it a great advantage to have the Antiochene issues segregated, even from the middle of this third century aconwards. And Mr. Newall's main conclusions are likely to be accupted by students generally. I for one, am not disposed to quarrel with almost any of them, least of all with his uncompromising rejection of the old theory that the nomograms namely conveal the names of mints. The points of interest are so minoring, and so varied, as to previoue any attempt to enter late detail. But it is perhaps permissible to mention that the well-known tetradractions of Antiochus, son of Seisuens III; are assigned to the childhood of Autochus V. (Eupator), an attribution originally proposed in the J. H.S. for 1992. In his discussion of the coins of Antaschus VI., by the way, Mr. Newall does not mention the tetradrachus of 142 n.c. struck from a die on which the name YTA has been deliberately aranid. Has he overlooked Regling's paper in Zeitschr. für Numiamatik, GEORGE MACDONALD XXIV.

αντάν. ή Μουστάς των Έλληνων νε διετώδη όπο των δρχοιστάτων χρόνων μεχρί της σήμερία έπό Α. Ρεμιστά καί Π. Δ. Ζοχαρία - Δει - Pp. xxxvi + 63. Athana : Τύσκε Έναμ. Ζογκορογήμα, 1917. 12 drachman

The anthoral declared aim is to dissipate the errors of certain Western unsicious about Greek mune, and to establish this branch of the art in the position that it deserves. Now Greek impie may moinde the ancient Greek theory and surviving fragments, Byzantine church music, and finally modern Greek music both eccledisatical and popular. Something is said upon all these in this book, and specimens are given in European notation with a piznoforte accompaniment. For Western readers the main concern will be with the folksomes; and here we cordially welcome the effort made by the authors to stimulate the enthusiasm of their countrymen for their national music. with the suggestion that Greek folk-may should form the basis of musical instruction in We fully agree Greek schools. Many of these songs are of great beauty, and bear strongly-marked features of chythm and conslity. The idea, however, that such traits are directly inherited from audient breece must be excused as a patriotic exaggeration. We feel sure that the native melodies of Hellas can stand on their own merits. In dealing with ancient music the authors keep to the orthodox lines. The examples are from Riemann and ron Kralik whose interpretations are adopted. Only one mediaeval hymn is printed; and, as the reference to the MS (Athens National Library) is controd, it is impossible to check the correctness of the rendering. There are six medern oxclimantical specimens. The authors do not say whether they are entirely in farmer of part singles. in the Greek Church. The first lignin (they Dande is meant for trobic and alto in thirds throughout (not a satisfactory arrangement) . but, the Kope respects (p. 14) is for musus singing. On the whole such a compromise is untiltely to miscood; hyanes committed by men who never dreamed of barmonization are far butter some as intended, e.e., in our moving part ever a drone. The attempt of the authors to syelve laws of harmons for the various analys (as was done by S. G. Hatherly in his Troutle on Byzantim Music) in theoretically logenisms and might be usuful to composers making in tersel many some inspiration for larger works. The theoretical portion of the book also deals with accountries and the laws of harmony. The student of Modern breeck will be intermeded to see here smally than language renders the technical terms—a contrast to Russian, which has imported them windesale from the West. The medianval mode-ayerum is briefly. discussed; but that of Chrysentims (printed 1882) receives fuller treatment. The authors condense the latter for perpetuating confusions as tonality. Metre and chythm are also deadt with. We note that 5-time and 7 time occur as the folksome conother supposed begany from ancient Greece). In Church master the authors incline to a measured tempo, contrary to tradition.

Forty-six folk undedies form the chief attraction of the volume. (Sayes of these arfrom Bourgauit Docombay. Midelies popularies de Grèce et d'Orient.). The plane accompaniments (which are as a rule ancessaful) will be justified if they encourage performance of the sings. The modal character of all the size is carefully preserved.

The music and text are clearly and scourately printed. The introduction, written in the higher incourse style, is generally hard and free from pomposity. There is a full table of contents, but no index.

H. J. W. T.

War at Sea; Modern Theory and Ancient Practice. By Admiral Sir Reniwates Costance, G.C.B., K.C.M.G., C.V.O., D.C.L. Pp. ix+H3: eleven Plans and a Map. Edinburgh and London: Blackwood, 1919.

Will anyone, we wender, ever write a real history of naval warfare in the best five centuries a.c. f The writer would have to be something more than abreast of implere critical research, and at the same time be well versed in both the theory and the practice of modern naval war; and he must never forget that his subject was real ships on a real

sea, and not a classical tradition. It seems unlikely that such a combination of qualities The lists book before us, in spits of its wide title, dose not pretend to be such a history. It takes the naval actions of two wars, the Persian and Peloponnesian, and applies them to illustrate the general theory of waging war-a scheme which demands that you first thoroughly understand what those naval actions were. The two spetions into which the book falls are of very unequal marit; would it be unfair to say that this reflects the difference between Herodotus and Thueydides! In the larger section, smaling with the Pelopoinesian war, numbers are carefully collisted, and the mayal operations are well done. Most of them were also well done by Thucydides, himself a naval commander, but even these who know this war intimately will min from Admiral Custance's treatment of the sea atory as a connected whole. Especially close and good in the manner in which the two trade routes. Siefly- Gulf of Cornell and Black Sea-Declarelles, are shown to combition the war at sea. In faction, just compliants is laid on the deepening of the Athenian wings at Arganusae, - a naveity which paved the way for Epsiminondas and Demotrina. The author, however, when considering Phormio's innovation, soon abandoned; of using line alread instead of line abressal, might well have warned the reader that the does not mean what line alread means in modime surface. for as artiflery was unknown, line alread for tireak galloys was only a mannetering and not a lighting formation; they always laid to turn anto line abwast to night. And it was not a 'new system'; on the althou's own showing, the Personal entered Salamis Bay in column of line ahead. We know now from Societae that the Physicians 'invested' the disspire, both that and line ahead may be infinitely old.

The shorter section, on the Presian war, is much inferior to the other; is to too brief, and though the mither has committed Dr. Marail, his convey a new clear felies of cities of the hig lattice. Thre is become (see far se-uppours) he has not really thought out his Herodolus. As an instance, no believes Herodorus mayal numbers to be 'nor impossible.' If follows that he could, as a pro-thed seamon, to fell to exactly how, without wireless, you took 1,200 waships about and amboyed them, or memorared a line which he throke naght in certain croamazances have been 16 miles long. It may be simplicity itself; but here can a chame for an expert to explain it to the wondering laying Artemislian bredgases the Greak first up masses the mouth of the Oreas Channel, with officer flunk resting on the hand, and then makes the Possions (3rd day) week to smarghe thous. At Salama, where he makes the Persians chter (as everyone new does) in column of line shoul, he direct suggests that they were cought 'at a dissilvantage' by the Greeks while changing to line absend, and later says, "It is not to be doubted that the Persiana unide a frontil strack'; while the plan shows two Persian columns, of which the pustern, nine abreast, is inacting, howe on the Greek's, who are in column of the abreast. Frankly, the account conveys luxly meaning to the present teriower. And the conclusion, that the barrie illustrates " he mirantage to be durined from a shillful use of the land by the inferior first, ' is no conclusion at all unless we are pulls sure (and in 1919 we are not) that the Greek floot in Salamis Bay on the day wer decadedly interior. What it done illustrate to how use or the land enabled the slow ship and the spear to beat the fact ship and the berg

The author, however, has an interesting theory or to why the Parsians area fought Saianne at all, which is, of course, the real point: the position of the Grach theoretical terms unwhere advances and, had they not fought, their sea communications, vital to their land army, would have been and angered. But it is not certain that the samy depended on scalaure food, is rather at food yet to arrive by soa; Memorine ded very wall without it. (Consider the Balgarian sari-tumper) of 1912.) And anyhow the first (abandaned) Persian pion—to manuscrive the Gracks out of the narrows by sending one appadrant to the Appolish—anoth apparently have mot the case. But the anthon is much interested in the charling position as being the true foundation of all naval strategy, a theore which he illustrates excellently from the Abendan flow at Sanas in the latter part of the Poloponnesson war, and from Hermocrates advances to the Syracussine (if is arrange that he does not adopt Dr. Maczn's view about Arbenisium, that the Gracks tradi-

position to flank a Persian advance down the Oreon Channel), and perhaps the reason of his Salamia theory is to be found in a little sentence on p. 100; he is one of those which that the Grand Fleet might have been in the Forth to flank a German advance withward.

The battle plans, or rather charts, are mostly excellent. There is a slip on the Sybota plan, where '20 Athenians' about 150 '10'; parkage it areas from the 20 Athenians who came up after the battle. The author introduces a delightful word which is new to the present reviewer, a float of screplanes is called an acry.

Greek Political Theory: Plate and his Predecessors. By Environ Bassers.
Pp. xiii + 403. London: Methaen and Co., 1918.

Some faulte years ago Mr. Barker produced a valuable book on the political thought of Plate and Aristotle. He now gives us under the shove title the first volume of a new work based on his surfler book, but containing much now material and planned on a considerably larger scale. Thus 207 pages dealing with Plate and his predecession in the original work have been expanded into 392, with eight lines more on each page. He has added a new and must interesting chapter on the political, communic and educational characteristics of the Greek States, and on the ports which slavery and representative institutions played in them. It is useful for the student of Plate and Aristotla to be ranumded that the low view which they hold of labour was not shared by the Athenian public and was "the opposite of Pericles' conception that an inlequant knowledge of politics can be combined with attention to private business. Mr. Barker has much enlarged his section on the Suphista, at the end of which he prints a translation of the recently discovered fragment of the Sophist Antiphon 'on Truth,' which shows how a naturalistic claw of the universe list to a naturalistic system of other and political Antiphen was sufficiently broad-minded to hold that "our natural andorsment is the same for all of us, whether we be Greeks or harbarians, and he thus uses the antithesis of chiese and viscor not merely for the familiar purpose of discrediting established law, but also with the more commendable object of proving the fundamental equality of mankend; Serves is rightly laid by Mr Barker on the point that the 'Might is Right' philosophy owes much to the political fact of the Athenesis Empire.

Mr. Harker decotes much attention to the earlier Platonin dialogues, as adumbrating the fully developed dectrine of the Republic, incelly annuarises the relation of that work to the 'seething of opinion which charactersed the and of the fifth century at Athena, and shows in detail how Plate's own political experiences modified his political theory: He gives a general assent to Professor Burnet's view of the relation between Plate and Somules, while refusing to believe that the decirine of ideas, communism and the rule of the philosopher-king are Socratic. We are melmat to think that his account of the Republic is somewhat unduly expanded. Auxious that we aliquid most nothing, he prosphrases Plate at great laugth and is prome to dwell on the important points with perhaps numeessary reiteration. Most welcome, however, is his criticism of Plate in the light of amolern political theory (he is a multipli dissiple of T. H. Grean), as well as of the mest recent political movements; for, so he says in allinsion to the war, it is Impossible not to feel that a new feeling for an old message came from the surgumetances and saymonment of the times. Militarism, navalism, international relations, national direction, socialism, the right to live, are discussed with the sacity and lumdity which we expect from Mr. Batker. The study of philosophy would be shorn of most of its terrors if all its exponents possessed Mr. Barker a clarity of style:

Chapter xii. contains a full analysis of the Politons a dialogue at the end of which Plate, foresking the absolution of the Kepublia, *makes his peace with reality and acknowledges that there is room in political life for consent and law and constitutionalism and all the slow unsciontific ways of the world of mon. Here again we think Mr. Barker

in a little long, but the chapter is brightened by allusions to the Stuart theory of prerogative, the German theory of monarchy, and positivism. The next 100 pages are devoted to the Lame, the most neglected and in many ways the most wonderful-and the most modern (or mediacral) of all the writings of Plato. Realising that the windom of a philosopher-king can never in this imperfect world take the place of law, Plato undertook a sort of codification of contemporary laws, which largely minusced Hellonistic and, later, Roman law. In this dislogue, too, he invented the grammar. school, as in the Bepublic he invented the university. There two points, made by Professor Burnet in his Greek Philos phy, supply texts for much that Mr. Barker has to tall as about the Lors. In the Lors education means education in the general art of sitzenship and in the spirit of the laws. Plate's prombles will provide a greenmant. liesum book. So important is concation that the Minister of Education is to be the chief magistrate of the State. The teachers, however, are to be resident affects and are to be pated. Elementary teaching or no work for a various of Athena; and pay would lower him. Pupils are to artend the same school for all subjects, and each school forms an 'officers' training corps, says Mr. Barber, where military drill is taught under the Langa the most interesting part of the book

Mr. Barker concludes with a mote on Armiotle's very considerable dight to the Lorent and a asserted appendix on the later history of Plate's political theory. The end of the Lorent is the beginning of the Middle Ages'—a saying justified by the religious destrine and persecution of the last book, where we read of the Noethrust Council conversing with heretics in the House of Reformation for the salvation of their scale. But says Mr. Barker, the analogies are spontaneous. It is curiose, and comewhat sud, to find that the way of faith and the way of reason, at least of the later Platonic variety, lead to the same result. Elderly metaphysicians tend to resemble youthful theologians in thinking that no view of the world but their own can possibly be right or even decent. Philosophy is obviously not for Little-Faiths.

We hope that Mr. Tarker will not be long in giving us his second volume on tristotte and his Successors. Such a book is badly wanted.

J. H. S.

The Neo-Platonists. By Thomas Whitraken. Second edition, with a Supplement on the Communitaries of Prochis. Pp. xvi+318. Cambridge University Press, 1918.

During the last few years Neo-Platenian has been receiving in Great Britain some of the attention to which its intrinsic greatness and historical importance outific it. The revival of interest in the subject is due in no small increase to Mr. Whittaker, whose treaties, The Neo-Platenich, published in 1961, still remains the best account of the school in English. Mr. Whittaker new gives us a second edition of his book; adding an apparent of 84 pages on the Communication of Proclus. Apart from this supplement, the only alteration of importance is in his account of Guesticzon, which Restauratem has shown not to be primarily a philosophical development of Christianity, as Mr. Whittaker maintained in his first edition, but to have its roots much further lack by the religious of Person, Chaldace and Egypt.

With the bulk of the book, which appears almost in its original form is is hardly necessary to deal here. The supplement, however, deserves notice as a new stall imperiant contribution to the history of philosophy. The New-Platonic School was founded by Plotinus at Rome about 244 a.o. After the death of fundlichus, about 330, it diffused itself through the happre, and at the beginning of the ofth century found a name in the Academy at Athens. Mr Whittaker's purpose in adding his appendix on Proches Commentaries is to give a more headled account of this Athenian period of New Platonism, of which Proches, bound of the Academy in the second half of the liftle.

century, was the chief representative. Proclus is so interesting that we may fairly wish that Mr. Whittaker had treated him systematically in a separate volume, a plan which, as he tells in, once occurred to him. The great merit of Procins is not that he is a thoroughgoing systematiser-nowadays over-much system is happaly at a discountbut that he is full of scuts criticisms of his predecessors, and foreshadows a number of important modern dectrines. He makes the point, so obvious to present day renders, that Plate would have been expelled from his own Republic as a dramatic artist and a jester. In his Commentary on the Permenides he asserts that 'what Zone demicit was that a planslity absolutely dispersed and without any unity that it participates in can be real at all. Whother this was Zeno's meaning or and, the interpretation is corrainly acute. Proclis indeed sometimes warse us that he is bringing out the implications of a decrine, without guaranteeing that those haplications were present to the mind of its author. He has much sensible criticions of the doctrine of spicyclus, which, he says. may be useful mongh for relculation; but do not represent the reality. The simplest thing is to suppose that 'the planets . . . more according to types of motion intermediate between the circular and the partitionar. To explain the planetary motions he has recourse to 'champing luminous from the planetary scula,' haz it is no amall advance to have attained as approximately correct discriptive formula.

Proplan dalines experience = a kind of proliminary knowledge, atterning only a "that and providing the material or which judgment operates and which reason turns into an object of knowledge and weether by processor which make evident the inward mercy of the judgment. This strongly suggests Kani, and there it an equally strong suggestion of Kant in the statement that every mental act points to some one individuals thing to us that known all any onergies, of femore dignerally so we re suggest in optional holding the characteristic New-Platonic doctrine of mystical filaminators, or rather nessience, reached by the countion of all possible predicates, he distinctly formulates the docume, says Mr. Whilitaker, that the ultimate test of truth ' is ultimately coherence in a total system of knowledge. Again Mr. Whittaker suggests that Proclas is antisipating the principle of 'organic value,' when he regues that 'the combination of the worse and the beller makes the whole one and perfect, though when they are not organically united, the mixture of the worse dustroys the power of the better. Pinclus' treatment of Time a particularly inversating. It is, he holds, more real than the thiogs in Time and all progress implies it; it is not merely an afferbate of consciousness, external things also purt inpute in it.

The weak point of Procles, as of Porphyry and the encessors of Platines generally, is their uncontrollable passing for allegorising. For Procles is quite aware of his own writers—, discrete always to convenie, and excuses he interpretations as useful mental principal. His releminants treatises are written in a plear and agreety e-wylo. They are interesting and metaly as the dying attenuous of free Hallania thought, has as beruicing a thousand years before their time some of the performine these of modern philosophical speculation.

1. H. S.

English Translations from the Greek a Bibliographical Survey. By Fixner Maryniz Kespan Frank, Ph.D. Pp. 2212 - 146 New York: Columbia University Press, 1918.

This is a list of translations published in England and America from Caxion's 1484 Asseptor Planudus) down to the year 1917, drawn up under authors and including Greek literature up to 200 a.to, with the exception of desembles and the Chronian Fathers. The sources drawn upon are, for English tisnularious, Miss Henrietts Palmer s list up to 1640 in vol. vi. of the Transactions of the Bibliographical Society, the Greeral Cambegue of the Bibliographical Society, the Greeral Cambegue of the British Masseure Labrary, the English Chialogue, Watt. Lownles and the like: for American translations, Evans's American Eddangraphy, the American Cambegue, the Publisher's Weekly, etc. A list of translators, with references, constitutes the index.

The list under such anthor is writtly chronological and makes no attempt to group together the various translations of each separate work, nor done the back set out to be anything more than a simple compilation from the standard works of reference. On this plans the only criticism to be argud against it is that it might have been better to set out reprints in their proper chromological places rather than in a note subjoined to the entry of the original allfloir, at may rate in the case of translations up to 1800. number of separate translations for the whole period works out at 1.289, which when remforced by their 575 rejamls gives a grand total of 2,164 additions. Of these, however, am less than 1,181 were issued during the unneteenth century. An interesting chart illustrates the development of translation by decades. A small but stoney growth up to 1640 is brought and leady down after that date by the adverse souditains of the Civil War From 1650 the curve tises once more to 1720, the year of the completion of Pope's Read, and then another decline note in, lasting twenty years. From 1740 to 1789 there is anisation fairly deady rise, then a duction to 1800, sacribal by Professor Foster to the exhaustion of the near-thone impulse, after which we got a rapid increase from 28 new translations on 1801-10 to 55 in 1821-30, and 59 in 1841-50. Prop about 1800 the stream swelled by Belin's Chasical Library and a multitude of "crits," rises to a birrent. the number of editions begging up from 120 in 1861-70 to 240 to each of the last two discolus of the century. A table showing statistics of the translations according to embigets for such half-century after 1500 affords whiteness of the changing that of supermove generations. Up to 1800 philosophy is an easy first, though history, fable and spir marries to divide the homogra with it halwage 1900 and 1650, whereas draws makes little show . the first translation of Accelerate in the list is actually as lite on 1744, and Sanhorles, Euripides and Aristophanus bare exceely better. But with the start of the mostocach century the supremacy of drama soon becomes overwhelming, although it was appareithly being once more a mandy challenged by philosophy from 1900 onwards

The Dream in Homer and Greek Tragedy. By Winnam Street Missie, Ph.D. Ph vin + 105. Now York Columbia University Press, 1918.

In this Back Dr. Mesor, whose habby is the simir of the dream "in all its aspects, literary and non-directry, subjects to a dutaffed unalysis avery passage in the Homers posses and the three tragedians dealing with dreams, or dreaming. Dr. Messer is widely real in all branches of his subject, and his organization contains much that he interesting. The instances in which a disam plays an important part are comparatively lor, and the only one which can be said really to dominate the artistic or meny of the paoni containing it is that of Atossa in the Persic; nevertheless, it is very pleman to follow Dr., We see in tracing the anagement elaborations and remoments which the driven device employment abor Homes had made a beginning with the guildful aream some by Zone to Agumenmon (Time ii. L. IL.) That ilrown, as Dr. Marast points out, outrages an all points the canons of dreaming faid down by Professor Frend, imanuach as it is entirely objective and personal ... committed and portrayed as an external entity, with power of moving, thinking and speaking, like to any hurald sent by the gods, a sensing desam damen. By the time of Euriphles, literary dreaming had become a much more elaborate and scientific affair. The delegan seem by Lphigenia (Iph. Town, 45 ft.) is not only susceptible of additionan into four episodes at the hands of Dr. Messer but falls in quite remarkably with the Freudian theory that dreums always represent the fulfillment of a wish, and that the wish is generally an infantile one. It is Accomplish however, and not European, whose dreams are the most protectly impressive of all, while sophocles, if the extant plays are a safe criterion, employed the dream device but -purringly.

Love, Worship and Death Some Randerings from the Greek Anthology, By Sin Ranneri Rose. A new and ordered edition. Pp. 11 + 120, Landon; Edward Arnold, 1910.

This book, which first appeared in 1916, is any divided in two parts, the first containing a general selection of opigrams, the second devicted by translations from Sapples. Erimin and other women poets. Some of the versions are quite neatly turned, but as a whole they lack distinction and force.

The Greek Theater and its Drama By Roy C. Fuckusom. Pp. zaviii + 388, Chicago: The University of Chicago Press, 1918. 3 dollars not.

Mr. Flickinger hopes for a great revival of popular interest in the drama on the return of passes. They be seleminly warns us that such an internal " has little to comment it if it has manifested by attempts at playwriting on the part of those whilens training. experience, or natural aptitude. He does not explain how natural aptitude may be tested without writing. On the other hand, he tells us, nothing can be more whole-ome than a withour sail knowledge of the origin, history, and hade principles of tracedy and country. He is, in fast, somewhat deficient in humour. Indeed, at the hand of a quite competent chapter on theatrical records, he has thought fit to inscribe the words 'Footprints on the sands of time.-Langiniles.' He spokegess with laborious conscientionsness for his temerity in differing from a certain Mr. Spingara, who southout theory torbids a critic to concern himself with the influence of miderial theatrical conditions on a play. He bowdlerists the very vascs which he reproduces for the purpose of instructing up on the appearance of Greek comic actors (pp. 46-47, notes). He is capable of soldiering Mr. Sutro as a parallel to the Grook tragediane ; mor does lie seem to realise that Mr. Surger habit of arranging all the said and the entrance hater in bourne to write his diabogue, is part of Mr. Surro's teral may to write muching made, woodin plays.

Yes the inecorning rander will pass over the a absordition with an indulgent smile, and will had in this same best much solid learning and many past of gradient. After discours on the origin of tragely and comedy (pp. 1-56), and an account, admined with excellent illustrations, of the structural history of the audient theatre (pp. 57-117), the author deals of length with the unincome on Greek draws of what he calls convergence in the branchest same of the trage. He sate out to show how the technique of the draws use of clear by its religious origin, he chiral origin, actors, it stiral examplements and a physical conditions, a p., the size and structure of the theatre. Under this last he along be discussed the on-called annues. There is a chapter, for two slight, on the influence of malional energies and figure, a chapter on the structural nucleancy and conventions, and

finally the very unful may so thestrical records

Mr. Filishinger regards triggedy and the satyric drawn is independent development of the Polopomissian dubyramb. Tragedy, be thinks, came to Athens by Ibaria, from Counth, where Aron composed the first drama, and from Seyon, where the upper trage was first used. Satyric drama was imported later by Pratinas from Philis, there wishes click checky to the amount liberary tradition; and this we hald to be a morif. It is of grant advantage for the student to have a clear exposition of the testimonic, and a sober estimate of their content. But the result is negative. After all his negations, Mr. Plickinger is found assuring as that "the general effect of Brachyleien" forces and the two what Arion's performances were like. Mr. Plickinger describes than Justing to this regard on the transfer than particularly in the call of the dead. Whitever may have been the matter of Arion a different of house, so that anyone who is investigating the origin—on.

we prefer to say, the origins—of his tragic art must take that cult late account. Complicated products of the human mind, like tragedy, here twenty thousand origins, and one

The section on the structure of the ancient theatrs will be walcomed even by these who cannot share Mr. Flickinger's embassions for Dörpfield. One of the best things in the book is the account (pp. 88 ff.) of the scenic arrangements of the Prop. Here-Mr. Flickinger uses imagination on a set of wall ascertained facts, and the result is illuminating. In view of this excellent reconstruction, and of the simbor's annuitle someths on the pursuit of Orestes by the Emminidia (p. 247), we are surprised that he should repeat the old unmarginative talk (p. 66) about a scene-hallding 'capable of being

resdy rebuilt or remodelled to meet the scenic requirements of each drama."

In dealing with the influence of chord origin the author is too much occupied with the notion that the chorus was a nulsance which the dramatist had to subdue by carriers daysees to the purpose of his are. He would have produced more illuminating results if he had started by considering the simu and mathods of choral lyres in its non-dramatic stage, and gone in to analyse the effects for which the dramations actually use their chards, rather than the davices by which they circumvented difficulties. A study of Findar's technique would purhaps have shown him that Sophocles has not been quilty of irrelarance in Automa III5 ff ... Compare that ode with the proceding ode 1944 ff.). and you will dis over the lyrical connexion between Somele, Antigone and Danae, and hotwoon Crean and Lycingui. Look at O.T. 200 ff., and you will understand that Dionyans is appropriately invoked as a Theban god to banish postileurs. In both plays there is significance in the connexion between Dionysus and Apollo of Delphi. In both, the dramatic sequel is rain instead of extention. Similarly, a student of lyrical technique will see dramatic relevance in the description of Persons with the Gorgon's head, remainire typo of Orestes, in Eur. 57, 434 where Mr. Flinkinger sees neithing last a tailure of Europeton. Even Demotor's search for her daughter in the Helmer (1301) is relevant by Greek at milards. At the ontset Halen invoked Persephone (175), and Helen harself can anatched away when the was cathering flowers (243) But Mr. Flickinger is not the only critic who ignores these exquisite details and talks of the Demeter cele as so received that many have thought it an interpolation. Similar criticisms are suggested by Mr. Finkinger's treatment of other topics. Much is said, for instance, of the limitations topic and by the small number of mitors. What is now important in the effect that the dramaticle in fact produced. There is a hint of what we want in the remark that the third actor made it possible to show the varied continue which me actor's matemants or conduct produce in the two others. But it is only a hint, and is god developed.

We hope Mr. Plackinger will accept our criticism as evidence of the interest with winch we have read his book. We have criticised it because we hope that it is not his lost our fire last work.

J. T. S.

A Handbook of Attic Red-Figured Vases, Signed by or Attributed to the Various Masters of the Bixth and Fifth Century, B.C. Vol. 1. By Joseph Chark Horris. Cambridge: Harvard University Press, 1919.

In publishing this book Dr. Hoppin has rendered a great service to the analysis reso-painting. The book is a record of both fact and epinion, for lessides a flet of the vasos commented by agreement and apply with such painter and potter, it contains a very complete set of references; increaver, every signed rane is illustrated except where an illustration proved underlandle. As Klain's Metales agreement and Nicoles similar publication in Revise Archielogique, 1916, were occupied only with matalogaing vesse by printers who appeal their name, this is the first such resord that has been published, and similarite are insidiant to its author for the saving of much time and labour.

Potters and printers are arranged alphabotically, the latter including nameters pulseign who have been distinguished by the character of their work, provided a

Painter of the Girgenti Calyx-Krater. Vases also are arranged alphabotically according to musquing, with a supplementary index of shapes and subjects. A really consistent classification would, of course, only be obtainable it all vases would be listed under their painters and cross references given under the potters' names; since our ignorance of many of the painters makes this impossible, some form of compromise must be adopted. That chooses by Dr. Hoppin is as follows: a wass signed by look painters and poster is described under the painter: a vase signed by a patter and attributed to a painter as potter in whose list it is not described, it might have been numbered with a cross reference among his works, even though this should sacribes the principle of numbering no race more than once.

The chronological arrangement is broken in the case of Onesimos and the Painition Painter, who are included in Volume i, in order that they may appear immediately after their patter Euphronics: there is, however, scarcely adequate reason why the amployees

of this one workshop should be grouped together.

Another inevitable difficulty lies in the fact that a book which is an importal record of opinion must increase the particular of a somewhat unislending kind: In particular it current avoid the maccuracy of attributing a ruse of a potter when meaning the arrival who worked for him. In some cases this matters has, for an attribution to 'Brigges' may should be an attribution to the Bryges painter, but when we have of ruse assigned to Eurithees we absorbe to the gratability a note explaining why the cap known (134 was given to him rather than to his painter Olton, and warming as as to the nature of the two attributions which follow. The author himself leaves a alightly combined impression when he says, with regard to Charlerylian, 'It is quite possible that the rarious aigned cases are the work of several different hands,' and proceeds to discuss, without distaine, 'the Charlerylian painter.'

With the vasce catalogued under their painters it is a more may exister. The interest attributed vasce are very comprehensive and of great uses, where the same very has been attributed to more than and painter. Dr. Hoppin uses his own discretian in aboveing where it shall be placed, and we welcome this so one of the law occasions on which be may express his own views. Among the analymous painters the majority countries the newly described in Benday's Attic Rive Figured Versa in discretic Affairment Each view is accompanied by an accompanied by the accompanied by an accompanied by the authorities responsible for stiributions had been indicated in every case more of only on particular cases. An illuminating account of his the study of

red figured vaces has developed will be found in the introduction.

No pains hat a been specied to make the illustrations as complete as war conditions would allow, and we are imbelied to Dr. Hoppin for publishing according for the first Museum. He Epskitone tyle in the Leaven (1.0), with an interesting border round the anterior, and the Gales lekythes in flusten, individually the illustrations are of unequal value; while many are from photographs and from the best reproductions, some sufficient he also had from reproductions of an inferior nature. Collectively they are invaluable and had the best done to much than illustrate the series of apped value at would have supplied one need to which we had become hopelessly resigned.

A Handbook of Greek Vace Painting. By Many A. B. Henrone, M.A. pp. 233 4- 120, 11 phins, 21 figures in text. (Publications of the University of Manchester, No. CXXII.) Manchester University Press Longmans, Green & Co., 1949. Sc. 66 met.

The production of a handbook both compact and readable is something of a problem, and Miss Harford may be congratulated on its solution. The book is principally an

introduction to Greek vases destined both for the non-archaeological resider and for the station who may one day be a specialist; parts, indeed will interest or please those to whom the study is already familiar. That it should appeal to the toot hat it gives that three classes, though occasionally at manual orpanse, is due to the fact that it gives first place to what is their common measure, the artistic development of vase-printing. This does not mean that it excludes the sections as appears of the subject, for she time part of the best gives descriptions of the various chapes and their employment, and one of the most head accounts of the manufacture and decreasion of red-figure vases as have read; now does it exclude inclusival questions, for which there is a certain partiality, such as the expost trade and the status of potters. The second or lestornal part is, however, very definitely a listory of painting rather than of pottery.

The earlier states are treated with special reference to the origin, evolution, and significance of their communitation. This cannot full to be hiteresting, but has the discreting that the remining for the particular treatment of the taken (seelf and the qualities that make it recognizable. Applied to the real figure style, the method is particularly some full; there is little attempt to introduce the works of coch artist, which is a book of this size would only be remining, but the botter known artists appear as representatives of the several movements, which are admirably described in sections on the drawing of the body and of drapery, the use of thinnest variable for colouring and texture, see. The attribution on p. 85 of a bulgment of Paris to the Brygos painter, presentably the kylix G151 in the Leaves, is notoworthy because containy to general opinion. Any fresh discussion of black fleure vano-painting is welcome at the present time: a special point is here made of the influence, possibly somewhat overwheal, of Chahadian on Attic, and the particiting of the various types of vasce.

It is to be regented that there is no mention of Rosotian pottery, whose permatency entities it to a place in a book where instituted tondency is considered, and whose solitary success in the field of carresture is important for its own sake, and as a contract to the Attic realism noticed on p. 97. On the other hand, the dominant of Cyprus in a very short purgraph is consistent with the plan of the book, but unfortunate in view of the unbiquity of its warra.

With regard to the illustrations; it is assumed that the reader has access to some such work as Walters History of Arcsen Pallery for the classic examples of each group; and Miss Herford is therefore free to describe without illustrating extrain of the more Ismore visus, and to librarate many classes by their less well known examples. Nearly four-fittle of the piates are devoted to Attic red-figure vases; bore again, the principle is not to give the chief paintings of each arriot, but rather to classes what is characteristic of a style. The places are on the whole excellent, and include some fresh publications.

A combiner to marridos description to commentary is pechaps the most obvious fault. As it is no more community of facts, the book can affect to be in many ways arbitrary as to what it amplifies and what it cours, but we would have exchanged an excursus, such as that in the display of divine statues, for father information, for instance, in the carbor period. None the less, Miss Herford's contribution is most valuable, both because it meets a want, and because it possesses individuality, a quality rare in handlacks.

Folk-Lore in the Old Testament. By Sin J. G. Frazen. 3 vola. London: Macmillan & Co., 1919. 37c 6d.

In these three volumes Sir Jemes France has collected in the manner with which we are familiar in his works every known begand and piece of fall-lare from all parts of the earth which will illustrate and, to some extent, explain the many survivals of primitive belief which are emphrised in the Old Testament. Beginning with the Hebrer legends of the Creation, the Fall of Man; the Flood, the Tower of Babel, and their Babylunian originals and congeners in all other lands, he goes on to the Covenant of Abraham, Samson and Delifah, etc., and by his submustive method of comparison sullightens

us not a little as to the unversality of such stories in the mind of primitive man. There is hardly a but of Helmen fulk love that is not abundantly paralleled absence. Primitive man reasons and speculates alike all over the world. In reading one may, of course, weary a little of the endless repetition of the customs of managerable primitive tribes if one is not a comparative anthropologist; a little good a long way to prove the point. But Sir James France aims at giving no everything, and here is the mine into which all who are interested may that if they are only so far inclined, or in which they may lallour if they aim at knowing everything that is to be known on the subject. To all students of the Old Testament and all commentators thereon these volumes are indepensable, and many less scientific readers will gain from their study a new light as to the meaning of what they read in the Habrow suriptures. Greak parallels, e.g., tho story of Deakalion's flood, are by no means wanting. This tradition of some primitive thood in Thesesly, and Chinese readitions of floods, which are endemic in the valley of the Hwang-he, are to be clearly distinguished from such a story as that of the Palyloman flood (equally natural in the hard of the Two Rivers), which is demonstrably the actual original of the Hebrew tradition. What culture the primitive Hebrews had was naturally of Babylonian origin

Incling with the Tower of Bahad, E-topper un-it, the sample of Emil at Babylen (which is not the same building as the mound of Bahit, with which Sie James appears to confine it, vol. 1, p. 360), is no doubt Herodotae's Tomple of Bahis, but that either this or the mighty ziggmust of Borsippe (Birs Nimrud) is the actual original of the Biblical tower can bardly be proved. The tale is a record of the supression made on the minds of the primitive Habrers by the scaring temple-towers of Babylonia, the aguat mixture of sconder, envy, and thoroughly 'many feeling which the childish barbarian feels when he sees or heave of the great works of a superior race. And it was maturally given a bone as Babylon steelf. Accuraty E-tomer-car-ki was not very bu, as ziggmust go the Simulat is far greater, and so the most prominent landmark in the neighbourhood of Babylon has maturally been identified actually in median Jewish, but also is modern British military tradition as the Tower of Babylo hadd. Sir James Francis no doubt right in accepting the late Frot. Kings oritherm of Koldowey's popular supposition that E-toman-andal had only one stage instead of the several which Harodotas apparently see with his own eyes.

Sylloge Inscriptionum Grascarum a General Divisionation comitta et aucua muni tertium edită. Vol. II. Lipsine: apud S. Hirashum, 1917.

The first volume of this classic of opigraphical research was noticed in J.H.S. xxxvi. p. 127, where will be found a general account of the new addition and its distinctive features. The second follows it at an interval of two years and contains the historical documents from the Peace of Nanpantan (217-6 n.c..) to the close of the Roman period, 105 in number. In the account edition the heading debu Romans (beginning in 146 a.c.) movered 115 larter it is now middivided, and we have 92 inscriptions belonging to the paried 146-31 u.o. and 172 daring from Imperial times. This leaves 141 texts dated in the first beyonty years covered by the rolame : again, however, there are a number of inscriptions carried forward from later sections, and in order to give as full a compectus as possible of the historical documents of the time in their chronological order, unmendazed references us the Orient's Grocci Inscriptions are inserted. It is not always easy to see why inscripthms which in the second edition were classed with those illustrating public, religious and private antiquities have been termaterized to the instorted section; for it is not necessarily processly dated texts which are so treat al, r.y. No. 504 in ed. 2, which appears as No. 889 in od. 3, and several inscriptions which it would seem more natural to class with those illustrating researce here been brought over, s.g. Nos. 650 and 657 in the second edition, may New 540, 287. The Delphie inscriptions which record the sending of Athanian Evenue to various Hedades, again, are of religious tathur than historical interest. But Pomtow, who is responsible for Delphi's contribution to the volume, was evidently allowed a free hand. and has pernied a great deal of material which might have been reduced in bulk by saloction.

For the sake of completeness he includes (and rightly) some Latin inscriptions, such as that on the base of the monument of L. Asmilius Paulus.

The instorical interest of this volume is of course not equal to that of the first, although it is an excallent thing that the study of the later Hellenistic period, hitherto somewhat neglected, should be made exciter and the third volume, which will in some respects be the most interesting of all, is yet to come. There is no indication that this is to be followed as report run) by a collection of metrical inscriptions to replace Kaibal's Epigranovate Granus.

The eliting, it must herdly be said, maintains the standard which we expect of the Solloge; but we do not think that Dittauberger would have been guilty of folgus (note on No. 623)! There is little, however, to criticise, Pointow placed the inscription which records the ergeroheren of Shris and Madson (No. 647) in 175 n.c. or thereabouts, but afterwards altered his opinion and thinks that it should be dated forcy years later. His argument from a reconstructed podigree seems inconclusive. In the communitary on No. 611 durposes is explained by "aushauches, exhauches, with a reference to No. 521 (in Vot L.) Is should be observed time the proper meaning of this word is not to period, but to be lacking, full to accompand with the tidal or roll. The LXX examples, especially Numb. 31, 40 and I Sau. 30, 10, us well as the metaphorical uses, make this quite clear. That the surveys mentioned in the inscription fell into the hands of pirates is likely enough, bur what is expressed in the fact of their disappearance, not their death. Further parallile to the Acalamations recorded in the note on No. 306 Magnes of revelops s.v.A. may be found in P.Oxy. 41, as well as 1413 (which was not accessible to the editor). We unto that Hiller von Gärtringen (Nea. 655, 679, 690) is careful to give the needful refereness to Mr. Tod's firsek diffidention, which Pointow seems to have overlooked (Nos. 540, 614). The Departishes many in No. 885 must savely be connected with the family which later furnished a presentier to the purple with a wife, Sulpicia Dryantilla and L.G.R. 4. 5001 (The later parts of LG.E., by the way, did not much the editors.)

(1) A Handbook of Antique Prose-rhythm. Vol. I., pp. 228. 1918. (2) De Numero Oratorio Latino Commentatio. Pp. 52. 1919. Ry A. W. Da Groot, Lill D., Conservator of the Library of the University of Groningen. Groningen. The Hague: J. B. Wolters.

In these two treatises we have an ambitious attempt to solve the problem of prese rhythm (or press metre, as the author says it should properly be called) on new lines, Dr. De Greet care houself advite both from ancient authority and from the methods of medicin research. The results arrived at by Zelinski, for example, he regards as built on said. That Zielinski records facts cannot be doubted; but facts often assume a new aspect when regarded from a new point of clow, i.e. in relation to other facts. I have anoth asympathy with the writer a contention that the clausals should be assumed as part of the sentence. The results of diversing its rhythm from the rhythm of what precises it were painted out in my review of Zielinski's lattest work. For example, take a familiar expression like One me critism sectio. What the natural rhythm (or metro) of those words is may be seen from a line of Plantus—say Ourc. 69 (an lambic senarius):

Quod ai non affert, quo me vortam neseno.

mentioned in the libility raphy of the Hand-book to, 2175; but a sa quoted in De Nass. Occa. p. 30.

Der Ginsteneties Khythaus in Cherras Robes (Supplumenthand xiri., Haft I, of Philologue, 1914), reviewed in The Year's Word for 1914, pp. 61-65. This work is not

The tabulated statement just referred to is De Grood's chief contribution to the problem of press rhythm. In order to find a occurs busis of operations be estalogues 128 combinations of long and short extlables, these being all the possible combinations to be found in seven syllables ($2^{\circ} = 128$), and to each series he adds an nighth syllable of indifferent quantity. Why easilly even syllables are taken the experimenting on benefstated. The first sequence is a second secon ---- and so on. And agares are given to show how then each serpoince appears in certain authors-both in the entence as a whole sail in this planuts. For Greek authors are Handle J., pp. 178-181; for Latin authors In Nam. Ocal., pp. 35-32. Hirrs we have an objective basis of facis-facts, however, which require interpretabling before we can proceed to inferences as to rhythm. On this similes operand I have two further remarks to make; (1) The sather entirely ignores punctuation, in order to avoid the subjective factor $(H_{ij})_{ij}$ 165). No death junctuation differs consolarably in different editions of the same text. But to ignore the parses which punctuation is intended to indicate is to righ from the trying pun into the fire. Not do I think that this danger is aluminated by the fact mentioned by De Groot that it is not more infinit to one author than to smother. For if a sequence is broken into two by a stop, we have really not one sometice but two. (2) I have tried to check the a thor's figures of time point, and I find my results only partially in agreement with his On p. 2 of the Remained burgious the number of tipes that the pyrrine to he the amphibench Land and - - and rather groups appear in the first 10(a) syllables of the las book of Thursyllides and of Phristels's Life of Pyrrhus. Anyone can test these figures for kinesalt. The discrupancies between De Groot's figures and mine until be thus either to some difference of promotical principle to to a different way of counting up the series lest.

The Emplish of the Hoselbook is semettimes claimsy; it is a translation. And it is sometimes obscure. I cannot, for instance, understand the statement on p. To (lines 3-b), which means meanwhere with what is said on the previous page. There are a good many misquints only some of which are corrected in the list of orrain.

On the whole, then, while wishing the author success in the further stages of his laborious undertaking. I his lists to express approval of his methods or results; so far as I understand them.

E. A. S.

I the p. 18 we could 'Do practical grounds I took 7, siel added—the reason will be explained later on—as signific.' I have not

succeeder in fining this 'bitrion' passage.

* the p 14 of the Huarbook dergane is suimed to be a

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BRONZE BUST OF QUEEN DYNAMIS OF BOSPORUS



BOSPORAN COINS





PERSIAN DARICS AND SIGLOI





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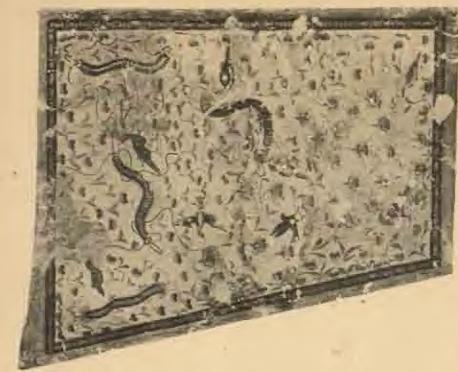
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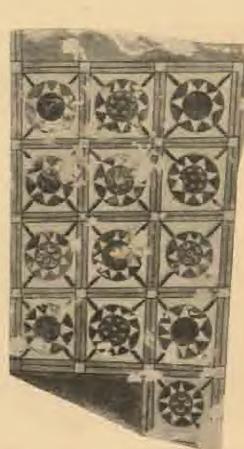


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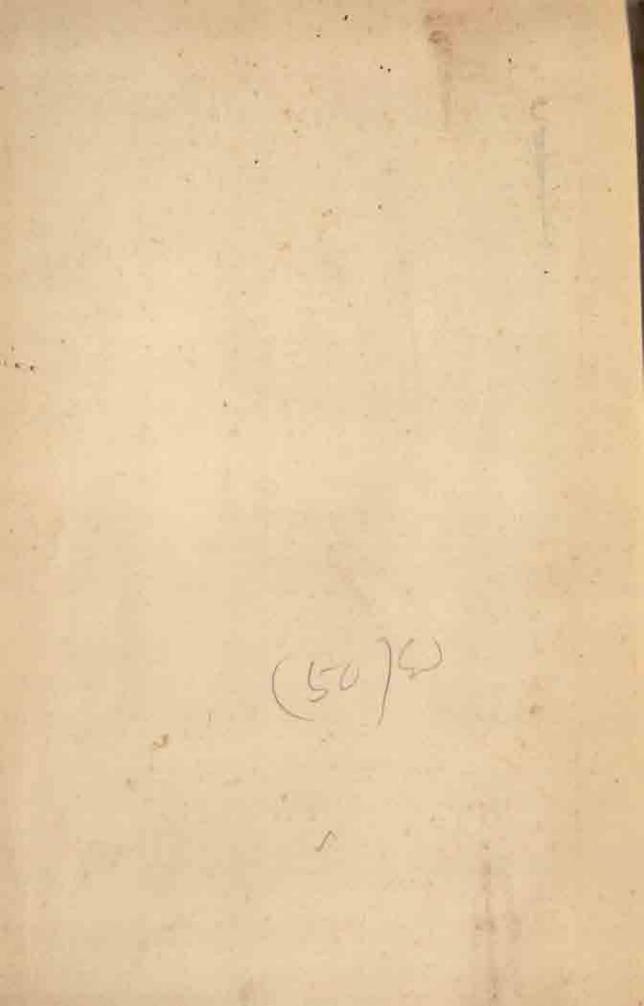


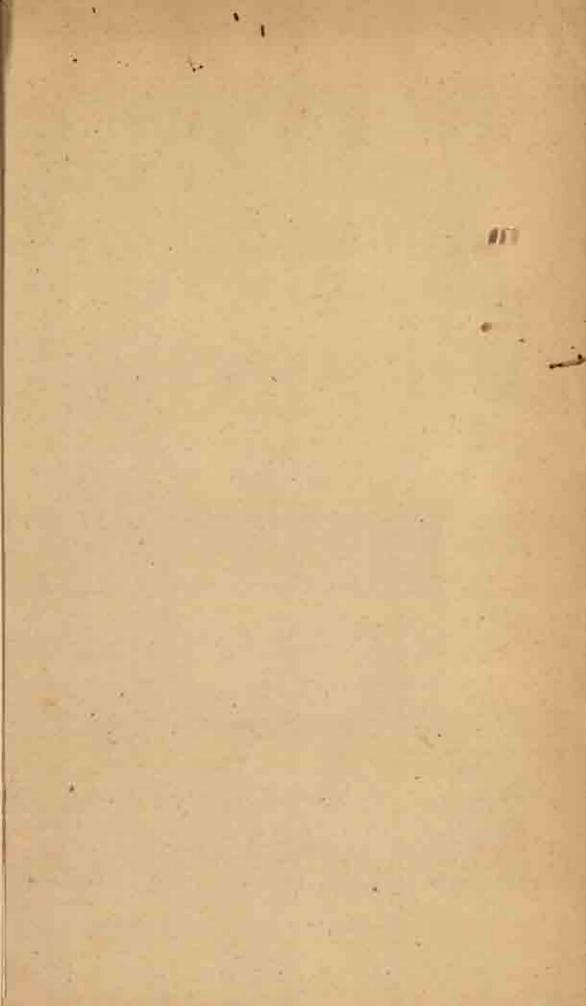


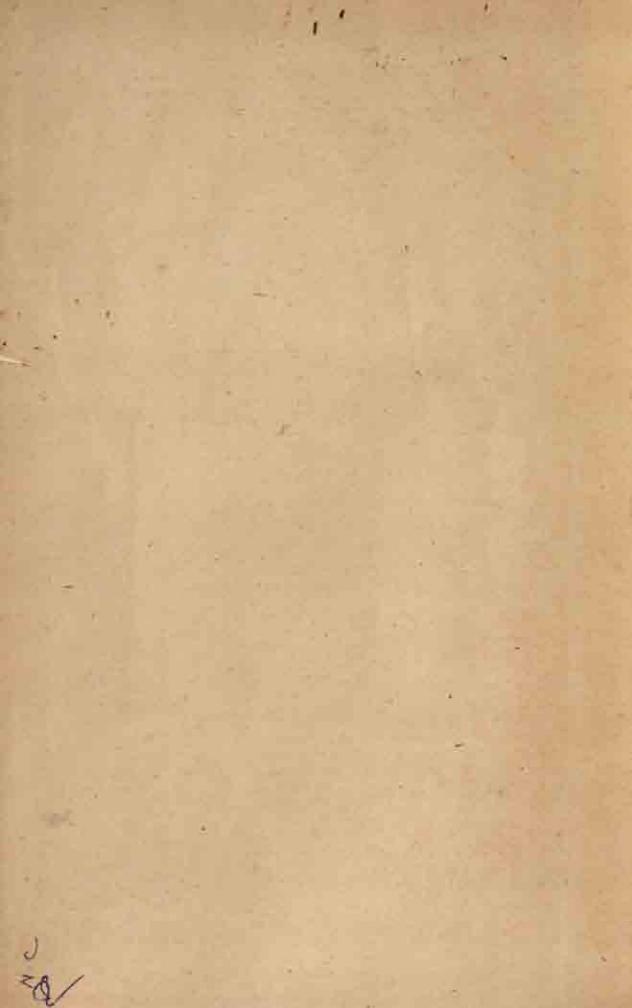




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